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Minimum DB
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15
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1: /cgn2_6/ptodata/:
2: /cgn2_6/ptodata/:
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                   US-09-164-907-12
US-09-38-546-15
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US-08-858-207A-206
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US-08-85-714-1
US-07-872-644-5
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US-09-484-970B-133 Sequence 133, 40 13:4 89.3 4780 3 US-08-936-135-23 Sequence 23, 41 13:4 89.3 4784 3 US-08-936-135-15 Sequence 23, 42 13:4 89.3 28171 4 US-08-961-527-22 Sequence 22, 43 13:4 89.3 4403765 4 US-09-103-840A-2 Sequence 2, 44 13:86.7 25:4 US-09-257-583-30 Sequence 30, 45 13:86.7 614 2 US-07-625-334-1 Sequence 1, 4	38 13.4 89.3 4769 3 US-08-936-135-13 Sequence 13, 39 13:4 89.3 4772 4 US-09-484-970B-133 Sequence 133, 40 13.4 89.3 4780 3 US-08-936-135-23 Sequence 23, 41 13.4 89.3 4784 3 US-08-936-135-15 Sequence 15, 42 13.4 89.3 281.71 4 US-08-961-527-22 Sequence 22, 43 13.4 89.3 403765 4 US-09-103-840A-2 Sequence 2, 44 13 86.7 25 4 US-09-103-840A-2 Sequence 30, 45 13 86.7 614 2 US-07-625-334-1 Sequence 1, 4	37 13.4 89.3 4765 3 US-08-936-135-21 Sequence 21, 38 13.4 89.3 4769 3 US-08-936-135-21 Sequence 13, 39 13.4 89.3 4772 4 US-09-484-970B-133 Sequence 13, 40 13.4 89.3 4780 3 US-08-936-135-23 Sequence 23, 41 13.4 89.3 4784 3 US-08-936-135-15 Sequence 23, 42 13.4 89.3 28171 4 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Sequence 13, 34 89.3 4782 4 US-09-96-135-23 Sequence 13, 34 89.3 4784 3 US-08-936-135-23 Sequence 15, 38 13.4 89.3 4784 3 US-08-936-135-15 Sequence 22, 38 13.4 89.3 403765 4 US-09-103-840A-2 Sequence 22, 38 13.4 89.3 4403765 4 US-09-103-840A-2 Sequence 30, 45 13 86.7 614 2 US-07-625-334-1 Sequence 1, 54 13 86.7 614 2 US-07-625-334-1	34 13.4 89.3 3539 3 US-08-936-135-7 35 13.4 89.3 4718 3 US-08-936-135-9 36 13.4 89.3 4733 3 US-08-936-135-11 Sequence 17, 37 13.4 89.3 4763 3 US-08-936-135-11 Sequence 11, 38 13.4 89.3 4765 3 US-08-936-135-13 Sequence 21, 39 13.4 89.3 4769 3 US-08-936-135-13 Sequence 13, 40 13.4 89.3 4780 3 US-08-936-135-23 Sequence 23, 41 13.4 89.3 4780 3 US-08-936-135-25 Sequence 23, 42 13.4 89.3 4784 3 US-08-936-135-15 Sequence 21, 43 13.4 89.3 403765 4 US-09-103-840A-2 Sequence 20, 44 13 86.7 25 4 US-09-257-583-30 Sequence 30, 45 13 86.7 614 2 US-07-625-334-1 Sequence 31,	33 13.4 89.3 3132 3 US-09-205-921-1 34 13.4 89.3 3539 3 US-08-936-135-7 35 13.4 89.3 4718 3 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US-08-178-42 Sequence 42.2 13.4 89.3 3132 2 US-08-224-482-3 Sequence 42.3 13.4 89.3 3132 2 US-08-236-135-7 Sequence 1.3 13.4 89.3 3132 3 US-08-936-135-7 Sequence 1.3 13.4 89.3 4718 3 US-08-936-135-11 Sequence 9.3 13.4 89.3 4718 3 US-08-936-135-11 Sequence 1.3 13.4 89.3 4765 3 US-08-936-135-21 Sequence 1.3 13.4 89.3 4779 3 US-08-936-135-13 Sequence 1.3 13.4 89.3 4784 3 US-09-484-970B-1.3 Sequence 1.3 13.4 89.3 4784 3 US-08-936-135-12 Sequence 1.3 13.4 89.3 4784 3 US-08-936-135-13 Sequence 1.3 13.4 89.3 4784 3 US-08-	29 13.4 89.3 2656 5 PCT-US92-0322-16 Sequence 16 30 13.4 89.3 2781 1 US-08-178-477B-42 Sequence 16 31 13.4 89.3 2781 1 US-08-178-477B-42 Sequence 16 31 13.4 89.3 3132 2 US-08-224-482-3 Sequence 3, 31 13.4 89.3 3132 3 US-09-205-921-1 Sequence 3, 32 13.4 89.3 3132 3 US-08-936-135-7 Sequence 7, 35 13.4 89.3 4718 3 US-08-936-135-1 Sequence 9, 36 13.4 89.3 4718 3 US-08-936-135-1 Sequence 17, 37 13.4 89.3 4765 3 US-08-936-135-1 Sequence 17, 38 13.4 89.3 4765 3 US-08-936-135-1 Sequence 18, 39 13.4 89.3 4765 3 US-08-936-135-1 Sequence 17, 39 13.4 89.3 4769 3 US-08-936-135-1 Sequence 18, 40 13.4 89.3 4780 3 US-08-936-135-2 Sequence 18, 41 13.4 89.3 4780 3 US-08-936-135-2 Sequence 18, 42 13.4 89.3 4780 3 US-08-936-135-1 Sequence 19, 43 13.4 89.3 4780 3 US-08-936-135-2 Sequence 22, 44 13.8 89.3 4781 4 US-08-916-1527-22 Sequence 22, 44 13.8 89.3 403365 4 US-09-103-840A-2 Sequence 30, 45 13 86.7 614 2 US-07-625-334-1 Sequence 11,

ALIGNMENTS

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GENERAL INFORMATION:
APPLICANT: Khachigian, Levon M.
APPLICANT: Khachigian, Levon M.
TITLE OF INVENTION: Inhibition of Proliferation of Cells
FILE REFERENCE: 27340200200
CURRENT APPLICATION NUMBER: US/09/142,779B
CURRENT FILING DATE: 1999-04-13
EARLIER APPLICATION NUMBER: PN 8554
EARLIER APPLICATION NUMBER: PN 8554
EARLIER FILING DATE: 1996-03-07
NUMBER OF SEQ ID NOS: 7
SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 4
LENGTH: 15
                                                                                                                                                                                                                                                                                                                                                                   US-08-040-548-9/c
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Best Local Similarity
Matches 15; Conserv
                                                                                                                                                                                                                                                                                                 Sequence 9, Application US/08040548 Patent No. 5763209 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 4, Applic Patent No. 6200960
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TYPE: DNA ORGANISM: Artificial Sequence
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
                                                                                                                                            CORRESPONDENCE ADDRESS:
ADDRESSEE: Arnold, White & Durkee
STREET: 321 No. 5763209th Clark Street,
                                                                                                                                                                                                                APPLICANT: Sukhatme, Vikas P.
TITLE OF INVENTION: METHODS AND MATERIALS
TITLE OF INVENTION: FUNCTIONAL DOMAINS OF
NUMBER OF SEQUENCES: 67
                                                                                                      STREET: 321 NO. CITY: Chicago STATE: Illinois
                                                                      COUNTRY: U
ZIP: 60610
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INVENTION: Molecular Toxicology Modeling ERENCE: 44921-5038-US

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                                                                                                               ; TYPE: DNA
; ORGANISM: Bacillus clausii
US-09-974-300-5464
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SEQ ID NO 1543
SEQ ID NO 1543
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            OTHER INFORMATION: Genbank Accession No. 15-09-917-800A-1543
                                                                                                                                                        SOFTWARE: FASTSEQ
SEQ ID NO 5464
LENGTH: 152
                                                        Matches
                                                                                     Query Match
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Best Local
                                                                                                                                                                                     NUMBER OF SEQ ID NOS:
SOFTWARE: FastSEQ for
                                                                                                                                                                                                                            PRIOR FILING DATE: 2000-10-06 PRIOR APPLICATION NUMBER: 60/279,526
                                                                                                                                                                                                                                                      PRIOR APPLICATION NUMBER: 09/680,598
                                                                                                                                                                                                                                                                                                                                                                                                                  09-974-300-5464/c
                                                                                                                                                                                                                  PRIOR FILING DATE:
                                                                                                                                                                                                                                                                                                                                               NPPLICANT: Berka, Randy M.
NPPLICANT: Clausen, Ib Gi
                                                                                                                                                                                                                                                                                                                                                                           ENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                      equence 5464, Application US/09974300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TYPE: DNA
ORGANISM: Rattus norvegicus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RIOR FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FEATURE:
                                                                                                                                                                                                                                                                                                                PPLICANT: Clausen, Ib Groth
ITLE OF INVENTION: Methods For Monitoring Multiple
ITLE OF INVENTION: Expression
                                                                                                                                                                                                                                                                                                    ILE REFERENCE: 10085.500-US
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            283 CTTGGCCGCTGCCAT 269
  49
                                                                       Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICATION NUMBER: US 60/295,798
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FILING DATE: 2000-11-02
APPLICATION NUMBER: US 60/290,029
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICATION NUMBER: US 60/298,884
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                          CTTGGCCGCTGCCAT 15
CTTGGCCGATGCCAT
                                                                                                                                                                                                                                                                     APPLICATION NUMBER: US/09/974,300 FILING DATE: 2001-10-05
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15; Conserva
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                                                        Conservative
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S: 1740
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Windows Version 4.0
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                                                                   Score 13.4;
Pred. No. 2
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Pred. No.
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; OTHER INFORMATION: US-09-864-761-27552
Query Match
Best Local Similarity 93.3
14; Conservative
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                                                                                                                                                                                                                                                                                                              ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PLICANT: Chen, Wensheng
TILE OF INVENTION: GENE EXPRESSION ANALYSIS BY MICH
                                                                                                                                                                                                                                                                                                                                                            ENGTH: 157
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                                                                                                           ER INFORMATIÓN: EXPRESSED IN BON
ER INFORMATION: EXPRESSED IN PLA
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ER INFORMATION: EXPRESSED IN FET
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                                                                                                                                                                                                                                                                                                                                                                                                                                FILING DATE: 2000-06-30
APPLICATION NUMBER: US 09/774,203
FILING DATE: 2001-01-29
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICATION NUMBER: US/09/864,761 FILING DATE: 2001-05-23
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CATION NUMBER: US 09/608,408
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NUMBER: GB 24263.6
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                                                                                                             BRAIN, SIGNAL = 1.3
ADULT LIVER, SIGNAL = 1.2
39.1, EVALUE 2.30e-02
T: BE885401.1, EVALUE 2.00e
                                                                                                                                                                                        BONE MARROW, SIGNAL = 1.2
PLACENTA, SIGNAL = 1.2
LUNG, SIGNAL = 1.4
FETAL LIVER, SIGNAL = 1.3
                                                                                                                  EVALUE 2.00e-83
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93.3%;

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Score 13.4; DB 10; Pred. No. 2.5e+02; 0; Mismatches 1;

Length 157; Indels

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Gaps

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US-08-466-344-15/c
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                                                                                                                                                                                                                                                                                                                                                                                                                            tent No.
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                                                                                                                                          COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                          MEDIUM TYPE: Floppy disk
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                                                                                   CLASSIFICATION: 514
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                         STREET: Chicago
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                                       APPLICATION NUMBER: 08/040,548
FILING DATE: 31-MAR-1993
NTTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                  ORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                TILE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      273 CTTGGCCGCTGCCAT 259
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APPLICATION NUMBER: US,
                                                                                                                      APPLICATION NUMBER: FILING DATE: 06-JU
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Local Similarity
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                                                                                                                                                                                                                                                         COUNTRY: U.S.A.
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LECOMMUNICATION INFORMATION:
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                                                                                                                                                                                                                                                                                    3: Arnold, White & Dulkee
321 No. 5773583th Clark Street, Suite 800
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245-4961
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                                                                                                                                                                                                                                                                                                                                                            METHODS AND MATERIALS RELATING TO THE FUNCTIONAL DOMAINS OF DNA BINDING PROTEINS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             100.0%;
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arcd067
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Pred No.
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NUMBER OF SEQUENCES: 18
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Best Local S
Matches 15
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Best Local S
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INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                      tent No. 5801270.
                                                                                                                                                                                                            APPLICANT: Russell,
APPLICANT: Thigpen,
TITLE OF INVENTION:
TITLE OF INVENTION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CURRENT APPLICATION DATA:
                                        COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MOLECULE TYPE:
            SOFTWARE: PatentIn RecURRENT APPLICATION DATA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                CORRESPONDENCE
                                                                                                                                                                                               NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                273 CTTGGCCGCTGCCAT 259
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   273 CTTGGCCGCTGCCAT 259
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: US/OFFITING DATE: 26-SEP-1988
                                                                                                COUNTRY: UI
ZIP: 77210
                                                                                                                                       CITY: Houston
                                                                                                                                                    STREET:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          LENGTH: 3086
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APPLICATION NUMBER: US/08/626,169
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                                                                                                                                                                                                                                                                                             Application US/08626169
                                                                                                                                                P.O. Box 4433
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                                                                                                             United States
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                         PatentIn Release #1.0,
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                                                                                                                                                                                ADDRESS:
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                                                                                                                                                                                                                                     David W.
Anice E.
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                                                                                                                                                                                                           BIOMARKERS FOR DETECTION, DIAGNOSIS AND PROGNOSIS OF PROSTATE CANCER
                                                                                                                                                                                                                                                                                                                                                                                                                                                  100.0%;
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Pred. No.
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                            Version #1.30
                                                                                                                                                                                                                                                                                                                                                                                                                                              DB 6; Length 3086;
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; OTHER INFORMATION:
US-09-864-761-31839
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; LOCATION: 48
; OTHER INFORMATION: a, t, c,
US-09-923-876-2313
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Best Local Similarity
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SOFTWARE: PERL Program
SEQ ID NO 2313
LENGTH: 265
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                 SEQ ID NO 4805
LENGTH: 273
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                                                                                                                                                                                                                                                                                                               Sequence 4805, Application US/09923876 Patent No. US20020013958A1
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APPLICANT: Sherman, Bradley K.
TITLE OF INVENTION: POLYNCIPES AND POLYPEPTIDES DERIVED FROM CORN SEEDLING
FILE REFERENCE: PL-0012-1 CON
CURRENT APPLICATION NUMBER: US/09/923,876
CURRENT FILING DATE: 2001-08-06
CURRENT FILING DATE: 2001-08-06
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                                                                                                                                                               FILE REFERENCE: PL-0012-1 CON CURRENT APPLICATION NUMBER: US/09/923,876 CURRENT FILING DATE: 2001-08-06
                                                                                                                                              PRIOR APPLICATION NUMBER: ,09/298,329
                                                                      NUMBER OF SEQ ID NOS:
                                                                                       PRIOR FILING DATE:
                                                                                                                            PRIOR FILING DATE: 1999-04-21
                                                                                                         PRIOR APPLICATION NUMBER: 60/085,331
                                                                                                                                                                                                                APPLICANT: Lalgudi, Raghunath V.
APPLICANT: Kamigaki, Laura Y. (Ito)
APPLICANT: Sherman, Bradley K.
FITLE OF INVENTION: POLYNUCLEOTIDES AND POLYPEPTIDES DERIVED FROM CORN SEEDLING
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FEATURE:
NAME/KEY: misc_feature
OTHER INFORMATION: Inc
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aki, Laura Y. (Ito)
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93.3%;
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Pred. No. 2
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Pred. No. 2
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; OTHER INFORMATION: Clone ID:
US-09-960-352-4856
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US-09-923-876-4805
                                                              ; ORGANISM: Bos taurus
; OTHER INFORMATION: Clone ID: 51-LIB34-004-Q1-E1-E4
US-09-960-352-11961
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SEO ID NO 4856
LENGTH: 349
                                                                                                                                                     NUMBER OF SEQ ID NOS:
SEQ ID NO 11961
 Query Match

Best Local Similarity

Matches 14; Conserv
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                                                                                                                                                                                                                                                                                                                                                             Sequence 11961, Application US/09960352 Patent No. US20020137139A1
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: Mathialagan, Nagappan TITLE OF INVENTION: NUCLEIC ACID AND OTHER MOLECULES ASSOCIATED WITH LACTATION AND TITLE OF INVENTION: MUSCLE AND FAT DEPOSITION FILE REFERENCE: 16511.006/37-21(10298)C CURRENT APPLICATION NUMBER: US/09/960,352 CURRENT FILING DATE: 2001-09-24
                                                                                                                                                                                     TITLE OF INVENTION: NUCLEIC ACID AND OTHER TITLE. OF INVENTION: MUSCLE AND FAT DEPOSIFILE REFERENCE: 16511.006/37-21(10298)C CURRENT APPLICATION NUMBER: US/09/960,352 CURRENT FILING DATE: 2001-09-24
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                                                                                                                                                                                                                                                                                                           APPLICANT:
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                                                                                                                     TYPE: DNA
                                                                                                                                                                                                                                                                         .PPLICANT: Byatt, John C.
.PPLICANT: Mathialagan, Nagappan
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: DNA
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                                                                                                                                   ENGTH: 414
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93.3%;
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Pred. No. 2
Score 13.4; DB 1(
Pred. No: 2.6e+02;
0; Mismatches 1
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Pred. No. 2
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                                 DB 10;
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                                 Length 414;
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0S-09-659-084-15/c
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LOCATION:
US-09-338-546-15
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                                                     TELEX: 904136
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
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LENGTH: 612 base pairs
TYPE: nucleic acid
                                                                                                                                                                                                                                                                             ZIP: 20007-5109

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/659,084

FILING DATE: 11-Sep-2000

CLASSIFICATION: CUNKNOWN>

PRIOR APPLICATION: CUNKNOWN>

PRIOR APPLICATION DATA:
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Local Similarity 93.3%;
Les 14; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TELEPHONE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 REFERENCE/DOCKET NUMBER: 18748/309
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 REGISTRATION: NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NAME/KEY:
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                                                                                                                           ATTORNEY/AGENT INFORMATION:
NAME: GRANADOS, PATISCIA D.
REGISTRATION NUMBER: 33,683
REFERENCE/DOCKET NUMBER: 18748/309
TELEPHONE: (202)672-5900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CORRESPONDENCE ADDRESS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    BARTLETT, ROBERT
TITLE OF INVENTION: NOVEL DEAH-BOX PROTEINS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: KIRSCHBAUM, Bernd
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GRANADOS, Patricia D
                                                                                                                                                                                                                                          APPLICATION NUMBER: 09/338,546 FILING DATE: <Unknown>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          904136
LENGTH: 612 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ADDRESSEE: Foley & Lardner
STREET: 3000 K Street, N.W., Suite 500
                                                                                                               TELEFAX: (202)672-5399
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CITY: Washington
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (202)672-5300
(202)672-5399
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1..612
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Pred. No. 2
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; LOCATION: 1.612; SEQUENCE DESCRIPTION: SEQ ID NO: US-09-659-084-15
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                                                     US-08-858-207A-206
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Best Local Similarity
  Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Patent No.
                          Query Match
                                                                                                                                   INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                        FILING DATE: 14-MAY-1996
ATTORNEY/AGENT INFORMATION:
NAME: Gimmi FA-----
                                                                                                                    SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                              SOFTWARE: FastSEQ for Windows Version CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                    COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CORRESPONDENCE
                                                                                                                                                                                                                                                                PRIOR APPLICATION DATA:
APPLICATION NUMBER:
                                                                                                                                                                        TELEPHONE: 610-270-4478
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              339 CTTGGCCGCTGACAT 325
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT:
                                                            TYPE: STRANDEDNESS: SIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                     ADDRESSEE: SmithKline Beecham Corporation STREET: 709 Swedeland Road CITY: King of Prussia
                                                                                                                                                                                                                                                                                                                                                                                                                COUNTRY: USA
ZIP: 19406-0939
               Local Similarity
                                                                                          TYPE: nucleic acid
                                                                                                                                                                                                  REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                             CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                          OPERATING SYSTEM:
                                                                                                                                                                                                                REGISTRATION NUMBER:
                                                                                                                                                                                                                                                                                                                   APPLICATION NUMBER:
                                                                                                        LENGTH:
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                                                                                                      .724 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Application US/08858207A
                                                                                                                                                             610-270-5090
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Knowles, David
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Stodola, Robert
/ENTION: No. 6348328el Compounds
 Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Black, Michael
                                                                                                                                                                                                                                                                                                                                                                       IBM Compatible
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                                                                            single
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552
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               89.3%;
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93.3%;
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Pred. No. 2.7e+02
0; Mismatches
             Score 13.4; DB 4; Pred. No. 2.7e+02;
Mismatches
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                        Length 724;
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367 CTTGGCCGCTCCCAT 381

1 CTTGGCCGCTGCCAT 15

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                               GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      -09-864-761-10916
                                                                                                                                                                                                                                                                                                          FILE REFERENCE: Aeomica-x-1
CURRENT APPLICATION NUMBER: US/09/864,761
CURRENT FILING DATE: 2001-05-23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SOFTWARE: Annomax Sequence Listing Engine vers. EQ ID NO 16568
                                                                                                                                                                                                                                                                       PRIOR APPLICATION NUMBER: US 60/180,312 PRIOR FILING DATE: 2000-02-04
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE: DNA
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   tent No. US20020048763A1
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                                                                                                                                                                                                                                                                                                                                                            TLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL TLE OF INVENTION: GENE EXPRESSION ANALYSIS BY MICROARRAY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         346 CTTGGCTGCCAT 332
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Local Similarity 93.
es 14; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1 CTTGGCCGCTGCCAT 15
                                                                                                                                                                                                APPLICATION NUMBER: US 60/207,456
FILING DATE: 2000-05-26
APPLICATION NUMBER: US 09/632,366
FILING DATE: 2000-08-03
                                                                                                                     APPLICATION NUMBER: US 60/236,359
APPLICATION NUMBER: US 60/236,359
APPLICATION ON 2000-09-27
                                                                                                          APPLICATION NUMBER: PCT/US01/00666
                                                                                                                                                                               APPLICATION NUMBER: GB 24263.6
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER: PCT/US01/00662
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: PCT/US01/00663
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NG DATE: 2000-09-21 ICATION NUMBER: US 09/608,408 NG DATE: 2000-06-30
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NG DATE: 2001-01-29
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                                                                       CATION NUMBER: PCT/US01/00667
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                                                                                                                                                                                                                                                                                                                                                                                              Hanzel, David K.
Chen, Wensheng
                                                                                                                                                                                                                                                                                                                                                                                                                               Rank, David R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Application US/09864761
                                      NUMBER: PCT/US01/00664
                                                                                                                                                                                                                                                                      2000-02-04
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Pred. No. 2
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US-09-974-300-5449/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US-09-864-761-10916
                                  ; NAME/KEY: misc_feature
; LOCATION: (1)...(489)
; OTHER INFORMATION: n =
US-09-974-300-5449
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Matches
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 Query Match
                                                                                                                                                                                                                  NUMBER OF SEQ ID NOS:
                                                                                                                                                                                                                                                                                                                                                                                           PPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TYPE: DNA
ORGANISM: Homo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   OTHER INFORMATION:
                                                                                                                                             IYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FEATURE:
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                                                                                                                                                                                                                                                                                                                                                                                           Clausen,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      sapiens
89.3%; Score 13.4;
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SOFTWARE: FastSEQ for Windows Version 4.0 SEQ ID NO 5449 LENGTH: 489
                                                                                                                                                                                                                                                                                                                                                                                   Sequence 5449, Application Patent No. US20020146721A1
                                                                                                                                                                                                                                                                              TITLE OF INVENTION: Methods for monitoring multiple Gene TITLE OF INVENTION: Expression FILE REFERENCE: 10085.500-05
                                                                                                                                                                       PRIOR APPLICATION NUMBER: 60/279,526 PRIOR FILING DATE: 2001-03-27
                                                                                                                                                                                                                                            CURRENT APPLICATION NUMBER: US/09/974,300 CURRENT FILING DATE: 2001-10-05
                                                                                                                                                                                                         PRIOR APPLICATION NUMBER: 09/680,598 PRIOR FILING DATE: 2000-10-06
                                                                                                                                                                                                                                                                                                                                               APPLICANT: Berka, Randy M.
                                                ORGANISM: Bacillus clausii
FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Local Similarity 93.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1 CTTGGCCGCTGCCAT 15
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER: PCT/US01/00661 FILING DATE: 2001-01-30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICATION NUMBER: PCT/US01/00662
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SED IN BONE MARROW,
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FETAL LIVER, SIGNAL = 1.3
BRAIN, SIGNAL = 1.3
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                                                                                                                                          The present sequence represents an early growth response factor-1 (EGR-1) DNA sequence. The specification describes a method for inhibiting the growth or proliferation of a tumour cell and treating tumours. The method comprises contacting a tumour cell or administering to a subject, an agent which inhibits induction, decreases expression or which decreases the nuclear accumulation or activity of EGR. The agent is a DNAzyme or an antisense oligonucleotide. The method is useful for treating solid tumours, including prostate tumours, hepatocellular carcinoma, skin carcinoma or breast tumours.
                                                                                                                                                                                                                                                                                                                         Treating tumors including prostate tumour, breast tumour, skin carcinoma, comprises administering agent which inhibits induction or decreases expression of early growth response factor-1
                                                                                                                     Sequence 4321 BP;
                                                                                                                                                                                                                                                                                                Disclosure; Page 16-23; 80pp; English.
                                                                                                                                                                                                                                                                                                                                                                                           WPI; 2001-300428/31.
                                                                                                                                                                                                                                                                                                                                                                                                                         Khachigian .LM;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     skin carcinoma;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Early growth response factor; EGR; tumour cell; tumour; DNAzyme; antisense oligonucleotide; prostate tumour; hepatocellular carcinoma;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Nucleotide sequence of rat early growth response factor-1.
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                                                                                                                 908 A; 1308
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RESULT 14 ABI99867/c

RESULT 15
ABN17030/c
ID ABN170
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AC ABN170
AC ABN170
XX
DT 24-JUN
XX
DE Human;
KW Human;
KW hyperp

24-JUN-2002 ABN17030;

(first entry)

Human; open reading frame; ORFX; gene therapy; cancer; hyperproliferative disorder; psoriasis; benign tumour;

cirrhosis;
haemorrhage;

Human ORFX polynucleotide sequence SEQ ID

NO: 2537

ABN17030 standard;

cDNA; 501

ВP

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1692 CTTGGCCGCTGCCAT 1678

1 CTTGGCCGCTGCCAT 15

Best Matches Query Match

Local Similarity les 15; Conserv

Conservative

0,

Mismatches

2.6e+02; DB 24;

Length 4494; Indels

0;

Gaps

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The present invention describes a method for examining ischaemic conditions, comprising measuring the expression levels of particular genes (I) in a test sample or determining the expression profile of a gene group in the sample comprising genes selected from (I). The method is useful for examining the ischaemic condition (e.g. compressive conclusive ischaemia or vasospastic ischaemia) by measuring expression levels of particular genes (AB199202 to AB199912, encoding the protein sequences in ABB57020 to ABB57374) or by determining the expression profile of a gene group comprising these genes. The cused as an indicator when screening for ischaemic condition-improving cused as an indicator when screening for ischaemic condition-improving cused as an indicator when screening for ischaemic condition and AB19911 crepresent PCR primers for a mouse ischaemic condition related sequence, which are used in the exemplification of the present invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Examining the ischemic condition (e.g. occlusive ischemia) by measuring expression levels of particular genes defined in the specification or by determining the expression profile of a gene group comprising these
                                                                  Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                   Claim 2; Page 2532-2537; 2690pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 genes
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Score 15;
Pred. No.
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                                                          974 T; 0 other;
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BASE COUNT
Search completed: December 16, 2002, 14:15:28 Job time: 2426 secs
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e mouse tissues.
Location/Qualifiers
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/note="pooled cell lines; (cell_line=rCB-1751 WEHI 164),
(cell_line=rCB-0464 Weth-A), (cell_line=rCB-0035 WEHI-3),
(cell_line=rCB-0559 K-1 F1), (cell_line=rCB-0545 OHTA),
(cell_line=rCB-0559 K-1 F1), (cell_line=rCB-1283 B16
melanoma), (cell_type=beq15, cell_line=rCB-1702 WEHI 231),
(cell_type=levg4ig cells, cell_line=rCRL-2070 NE),
(cell_type=beq4ig cells, cell_line=rCRL-2070 NE),
(cell_type=bone marrow, cell_type=stroma cell,
(tissue_type=bone marrow, cell_type=stroma cell,
cell_line=rCB-0208 SR-4987), (tissue_type=colon,
cell_line=rCB-0349 Cle-H3), (tissue_type=kidney,
cell_line=rCB-1734 SCA-9 clone 15), (strain=bALB/C,
cell_line=rCB-0549 Cle-H3), (tissue_type=stroma cell,
cell_line-rCB-0549 Cle-H3), (tissue_type=stroma cell,
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Copyright (c) 1993 - 2002 Compugen Ltd.
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/SIDS2/gcgdata/geneseq/geneseqn-embl
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Egr-1 transcriptio
Mouse Egr-1 cDNA
Mouse Egr-1 coding
Nucleotide sequenc
Egr-1-contg. OC3.1
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                          WPI; 1997-470545/43.
                                                                                                              07-MAR-1996; ·
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                                                                                                                                                                                                                                                                           Antisense sequence; inhibitor; Egr-1; rat; early growth response gene; cellular proliferation; inhibitor; cell migration inhibition; therapy;
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                                                    Khachigian LM
                                                                                                                                                                    12-SEP-1997
                                                                                                                                                                                              WO9732979-A1.
                                                                                                                                                                                                                        Rattus sp.
                                                                                                                                                                                                                                       Synthetic.
                                                                                                                                                                                                                                                                atherosclerosis; restenosis; ss.
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n breast	982		0	9	13.4	5
breast canc	1977		9	9.		4
secreted pr	2067		4	9		ω
uman genome-de	1883		ū	9		2
#19268 us	5058		ū	9		-
n bone marrow	4460		157	9	13.4	0
n brain expre	1867		ū	9		39
uman foetal li	A7043		U	9		8
acillus clausii	7817		ū	9		
tification	8906		2	9		
qlutamicum o	н6852		998	ω •	14	
rosophila me	L0355		48	ω.	14	
osophila mel	E0668		546	ω	.14	
rosophila mel	673		367	ω	14	2
rosophila mel	355		349	Ψ	14	
sophila mel	980		98	ω ·	14	
lutamicu	933		99	ω.	14	29
leotide	533		99	Ψ	. 14	
encodino	998		10	Ψ	14	
ophila melano	899		47	ω.	14	6
testicular	779		19	ω.	14	
n testicular	779		19	ω.	14	
reproductiv	90		19	ω	14	23
reproductiv	490		19	ω.	14	
uman ORFX ORF231	AAC76756	21	2588	93.3	14	21
. qlutamicum par	1584		35	ü	14	20
ynebacterium q	7148		22	ω.	. 14	19
lutamicum codi	6670		10	Ψ	14	8
bidopsis thalf	284		56	ω.	14	17
encoding no	9218		8	ω.	1.4	9
an ORFX polynu	N1703		0	ω	14	5
se ischaemic c	986		9	00.	15	4
cleotide sequen	8513		32	00.	15	13
t Egr-1 coding	A7439		Ν	0.	15	12
t sequence di	K6363		H	00.	15	Ξ
Mouse Egr-1 clone	σ		80	00.	15	<u></u>

ALIGNMENTS

BP.

Inhibiting cell proliferation by altering Egr-1 levels -96AU-0008554. 97WO-AU00140. useful

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REFERENCE
AUTHORS
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                                                                                                                                                                                                                                Submitted (18-OCT-1996) Pathology, NE Pacific, Seattle, WA 98195, USA
                                                                                                                                                                                     2 (bases 1 to 676)
Adams, L.A., Werny, I. and Schwartz, S.M.
Direct Submission
                                                                                                                                                                                                                                                                                                                                                      Rattus norvegicus
Eukaryota; Metazoa;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     transcriptional activator Mol. Cell. Biol. 10 (7), 90287135
                                                                                                                                                                                                                                                                                                                                                                             Rattus
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llarity 100.0%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                    norvegicus Krox-24 mRNA,
                                                                                                /db_xref="taxon:10116"
/cell_type="aortic smooth muscle"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /protein_id="AAA39383.1"
//ab_xref="GI:198607"
//ransiation="MAAAKAEMOLMSPLQISDPFGSFPHSPTMDNY"
170 c 103 g 57 t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /codon_start=1
/product="Krox-24 nuclear protein"
/protein_id="AAB38708.1"
                      /note="similar to EGR-1"
/codon_start=1
                                                                                                                        /strain="Wistar-Kyoto"
                                                                                                                                organism="Rattus norvegicus"
                                                                                                                                                      c, Seattle, WA 9819
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ob_xref="taxon:10090"
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                                            /gene="Krox-24"
                                                                   gene-
                                                                                     stage-"two
                                                                   "Krox-24"
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Rodentia;
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                                                                                     day old pup"
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partial cds.
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AR014526/c
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AR012087/c
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1 (bases 1 to 843)
Sukhatme, V.P.
                                                                                                                                                                             Unknown
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                                                                                                                                     Methods and materials relating to the functional domains of DNA
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US 5773583-A 9 30-JUN-1998;
Location/Qualifiers
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US 5763209-A 9 09-JUN-1998;
Location/Qualifiers
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/translation="mdnypkledemmllsngapqplgaagtpegsggnnsssssxxxxg
GGGGGGXNGSSAFnpQGEPSEQPYEHLTTESFSDIALNNEKALVETSYPSQTTRLPP
ITYTGRFSLEPAP"
                                                                            /organism≖"unknown"
299 c 209 g
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2.2e+03;
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hes 0;
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                                               Length 843;
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RESULT 5
AAQ73457/c
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AC AAQ734:
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DT 06-MAY
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ARESULT 4
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    06-MAY-1995
                                                                                                                                                                             Sequence 15 BP; 1 A; 6 C; 4 G; 4 T; 0 other;
                                                                                                                                                                                                                                                                                                                         expression
                                                                                                                                                                                                                                                                                                                                  Treating tumors including prostate tumour, breast tumour, comprises administering agent which inhibits induction or
                                                                                                                                                                                                                                                                                                                                                                                        Khachigian
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Early growth response factor; EGR; tumour cell; tumour; DNAzyme; antisense oligonucleotide; prostate tumour; hepatocellular carci
                        AAQ73457;
                                          AAQ73457 standard;
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/note=
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                                          DNA;
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RESULT 6
AAV64275/c
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Best Local S
Matches 15
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                                                 CDS
                                                                                                                                                           Egr-1; murine; early growth response protein; inhibitor; tumour; mitogen; platelet-derived growth factor; PDGF; retroviral vector; osteosarcoma; zinc finger domain; fibrosarcoma; glioblastoma; carcinoma; ds.
                                                                                                                                                                                                                                                                Mouse Egr-1
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                                                                                                                                                                                                                                                                                                                                                                                                           AAV64275 standard; DNA; 3068 BP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       eukaryotic hosts
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Early growth regulatory protein; Egr-1; zinc finger; DNA binding protein; cell growth; transcription activator; nuclear localization; polynucleotide binding; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Disclosure; Page 92; 145pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        New early growth regulatory polypeptide and related DNA for modulating transcription, localisation and binding of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 1994-333191/41.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WO9423030-A.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    polynucleotide(s)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            10-MAR-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           13-OCT-1994
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15; Conserv
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                                              Location/Qualifiers 370..1860
/product=
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Pred. No. 2.4e+02;
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BASE COUNT
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c-fos proto-oncogene.
                                                                                                                                                                                                                                                                                                                                                                 Archosauria; Aves; Neognathae; Galliformes; Phasianidae; Phasianinae; Gallus.
1 (bases 1 to 2253)
Molders, H., Jenuwein, T., Adamkiewicz, J. and Muller, R.
Isolation and structural analysis of a biologically active chicken
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gallus gallus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Chicken c-fos proto-oncogene mRNA,
                                                                                                                                                                                                                                                                                                                                                                                                                                    Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Archosauria; Aves; Neognathae; Galliformes; Phasianidae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Chicken embryo fibroblast, cDNA to mRNA
                                                                                                                                                                                                                                                                                                                          Oncogene 1 (4), 377-385 (1987)
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               399
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llarity 100.0%;
Conservative (
             ADAFPSCAAAHRKGSSSNEPSSDSLSSPTLLAL*
                                         TALDLGAPSPAAAEEAFALPLMTEAPPAVPPKEPSGSGLELKAEPFDELLFSAGPREA
SRSVPDMDLPGASSEYASDWEPLGAGSGGELEPLCTPVVTCTPCPSTYTSTFVFTYPE
                                                                    /translation="MMYQGFAGEYEAPSSRCSSASPAGDSLTYYPSPADSFSSMGSPY
NSQDFCTDLAVSSANFVPTVTAISTSPDLQWLVQPTLISSVAPSQNRGHPYGVPAPAP
PAAYSRPAVLKAPGGRGQSIGRRGKVEQLSPEEEEKRRIRREKMAAAKCRNRRREL
TDTLQAETDQLEEEKSALQAEIANLLKEKEKLEFILAAHRPACKMPEELRFSEELAAA
                                                                                                                                                                                                                                                                          Location/Qualifiers
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                                                                                                                                                                                                                         /organism="Gallus gallus"
/db_xref="taxon:9031"
                                                                                                                                        /protein_id="AAA48670.1"
/db_xref="GI:211470"
                                                                                                                                                                                      /note="c-fos proto-oncogene product"
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1366. .1370
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|325. .1330
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Pred. No. 2.1
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DVHRYWNGA
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Best Local
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Submitted (01-JUL-1993) Corces V. G., The Johns Hopkins Univers Biology, 34th and Charles Sts, Baltimore, Maryland, USA, 21218 2 (bases 1 to 2700)
Harrison,D.A., Gdula,D.A., Coyne,R.S. and Corces,V.G. A leucine zipper domain of the suppressor of Hairy-wing protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gallus gallus Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Archosauria; Aves; Neognathae; Galliformes; Phasianidae; Phasianinae; Gallus.

1 (bases 1 to 2253)
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Y00659
                                                                         Corces, V.G.
Direct Submission
                                                                                               Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota; Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha; Ephydroidea; Drosophilidae; Drosophila.
                                                                                                                                                          Hairy-wing protein.
Drosophila virilis.
Drosophila virilis
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D.virilis Hairy-wing
                                                                                                                                                                                                                                                                                                                                                                    ch 100.0%;
1 Similarity 100.0%;
15; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Moelders, H., Jenunein, T., Adamklevicz, J. and Mueller, R. Isolation and structural analysis of a biologically active c-fos cDNA: identification of evolutionarily conserved doma
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          l Similarity
15; Conserv
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Submitted (18-NOV-1987) Moelders H.,
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Location/Qualifiers
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125. .1225
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/clone="1/1"
                                                                                                                                                                                                                                                                                                                                                                                                                                      /note="fos-protein"
729 c 647 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /strain="SPAFAS"
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e CDS.
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                                                                                                                                                                                                                                                                                                                                                                  0;
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                                              University,
, 21218
                                                                                                                                                                                                                                                                                                                                                                  Gaps
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RESULT 9
AAN91815/c
PR XXX PR PR XXX PR XX PR XXX 
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The present sequence represents an early growth response factor-1 (EGR-1) DNA sequence. The specification describes a method for inhibiting the growth or proliferation of a tumour cell and treating tumours. The method comprises contacting a tumour cell or administering to a subject, an agent which inhibits induction, decreases expression or which decreases the nuclear accumulation or activity of EGR. The agent is a DNAzyme or an antisense oligonucleotide. The method is useful for treating solid tumours, including prostate tumours,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mus.
                                                               Claim 8; fig. 1.1-1.8;
                                                                                                                               Early growth regulatory proteins of mouse and human - incfingers, vectors and DNA sequence encoding the proteins,
                                                                                                                                                                                                        WPI; 1989-324195/44.
P-PSDB; AAP93113.
                                                                                                                                                                                                                                                                             Sukhatme VP;
                                                                                                                                                                                                                                                                                                                                                                            08-APR-1988;
26-SEP-1988;
                                                                                                                                                                                                                                                                                                                                                                                                                                               07-APR-1989;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                polyA-signal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Key
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Egr-1; DNA-binding proteins; zinc fingers;
early growth regulatory proteins;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAN91815 standard; DNA; 3086
                                                                                                                                                                                                                                                                                                                         (ARCH-) ARCH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              W08909777-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            polyA-signal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        polyA-signal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            mat_peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Egr-1-contg.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAN91815;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 3068 BP; 688 A; 939 C; 705 G; 736 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  19-MAR-1990
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Disclosure;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                19-0CT-1989.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        hepatocellular carcinoma,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                273 CTTGGCCGCTGCCAT 259
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 CTTGGCCGCTGCCAT 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             15;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Page 16-23; 80pp; English
                                                                                                                                                                                                                                                                                                                           DEVELOPMENT CORP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   OC3.1 clone
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (first entry)
                                                                                                                                                                                                                                                                                                                                                                        88US-0179587.
88US-0249584.
                                                                                                                                                                                                                                                                                                                                                                                                                                               89WO-US01473
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1865..1871
/*tag= b
3066..3072
/*tag= c
3053..3059
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              100.0%;
                                                          55pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   skin carcinoma or breast tumours.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ₽P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 15; DB 22;
Pred. No. 2.5e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length 3068;
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                                                                                                                                 including zinc
ns, and methods
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0;
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                                                             SX 0000000000X8
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The sequence is that of the OC3.1 clone contg. the mouse Egr-1 protein sequence which has DNA-binding zinc fingers.

Query Match

Sequence

3086

BP; 706

A; 939

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705 G;

736 T; 0 other

Best Local Similarity

100.0%;

Score 15; Pred. No.

DB 15; 2.5e+02;

Length 3086;

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RESULT' 10
AAQ73463/c
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Best Local Similarity
Matches 15; Conserv
        Clone OC3.1 was isolated from a cDNA library derived from BALB/C 3T3 mouse cells, and designated Egr-1. Particular domains of Egr-1 protein have specific functions: activation of transcription (domains given in AAR63131-32), repression of transcription (AAR63133), nuclear localization (AAR63134-5), and polynucleotide binding (AAR63136). Virus and plasmid vectors containing sequences encoding these peptides can be used (by transfection or transformation) to regulate transcription in prokaryotic or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Early growth regulatory protein; Egr-1; zinc fir DNA binding protein; cell growth; transcription; nuclear localization; polynucleotide binding; ss
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 3086 BP; 706 A; 939 C;
eukaryotic hosts.
                                                                                                                                                                                              Disclosure; Page 94-95; 145pp; English
                                                                                                                                                                                                                                        New early growth regulatory polypeptide and related DNA for modulating transcription, localisation and binding of polynucleotide(s)
                                                                                                                                                                                                                                                                                                                                                                                       Sukhatme VP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     31-MAR-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       polyA_signal
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                                                                                                                                                                                                                                                                                                                          WPI; 1994-333191/41.
P-PSDB; AAR63129.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           10-MAR-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      13-OCT-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WO9423030-A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mouse Egr-1 clone OC3.1
                                                                                                                                                                                                                                                                                                                                                                                                                           (ARCH-) ARCH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              273 CTTGGCCGCTGCCAT 259
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                                                                                                                                                                                                                                                                                                                                                                                                                           DEV CORP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   9305-0040548
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1865..1870
/*tag= b
3053..3058
3*tag= c
3066..3071
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Pred. No. 2.5e+02;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        736 T; 0 other;
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REFERENCE
AUTHORS
TITLE
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SOURCE
ORGANISM
                                                                                                                                                                                                       REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                       ACCESSION
VERSION
KEYWORDS
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AX401867/c
LOCUS
DEFINITION
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ORIGIN
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ACCESSION
VERSION
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AR014532/c
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ORIGIN
                                                                                                                                             FEATURES
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Best Local Similarity 100.0%;
Matches 15; Conservative (
                                                                                                                                                                    TITLE
JOURNAL
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Best Local Similarity 100
Matches 15; Conservative
                                  Query Match
Best Local Similarity 100.0%;
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                        Matches 15;
                                                                                                                                                                                                                                                                 ORGANISM
                                                                                                                                   source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       source
                                                                                                                                                                                                                                                                                                                                                                                                  273 CTTGGCCGCTGCCAT 259
1 CTTGGCCGCTGCCAT 15
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Unclassified.

1 (bases 1 to 3
Sukhatme, V.P.
                                                                                                                                                                                                                               Rattus norvegicus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;
                                                                                                                                                                                                                                                                                                               3112 bp DNA Sequence 1543 from Patent W00210453. AX401867
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 15 from patent AR014532
                                                                                                                                          Molecular toxicology modeling Patent: WO 0210453-A 1543 07-FEB-2002) Gene Logic Inc. (US)
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            binding proteins
Patent: US 5773583-A 15 30-JUN-1998;
Location/Qualifiers
                                                                                                                                                                                                                                                                                                     AX401867.1 GI:21338047
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Unknown.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AR014532.1 GI:3971986
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AR014532
                                                                                                                                                                                            Mendrick,D., Porter,M.W., Johnson,K.R.,
Elashoff,M.R.
                                                                                                                                                                                                                                                                               Norway rat.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Methods and materials relating to the functional domains of DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                706 a
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                        Conservative
                                                                        1. .3112
/Organism="Rattus norvegicus"
/db_xref="taxon:10116"
/db_="EMBL/GenBank Accession No. NM_012551"
a 951 c 711 g 742 t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /organism="unknown"
939 c 705 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  939 c
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                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 15; DB 6;
Pred. No. 2.1e+03;
); Mismatches 0;
                      Score 15; DB 6;
Pred. No. 2.1e+03;
); Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 15; DB 6;
Pred. No. 2.1e+03;
; Mismatches 0;
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2 US 5773583.
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                        0; Indels
                                                                                                                                                                                                      Castle, A.L. and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length 3086;
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                                             Length 3112;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           linear
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                      <u>,</u>
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Db 283 CTTGGCCGCTGCCAT 269

Search completed: December 16, 2002, 13:34:52 Job time : 3187 secs

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Query Match
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Medicago truncatula
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
Rosidae; eurosids I; Fabales; Fabaceae; Papillonoideae; Trifolieae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Department of Plant Biology
University of Minnesota
220 BioSci Center, 1445 Gortner Ave,
Tel: 612 624 2755
Fax: 612 625 1738
                                                                                                                                                                                                                                                                                   http://chrysie.tamu.edu/medicago
Seq primer: SKmod (CTA gAA CTA gtg
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                         Texas A&M University name:T264387e
TIGR sequence name:MTGAX51TK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Unpublished (1999)
Contact: VandenBosch K
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 (bases 1 to 364)
VandenBosch, K., Endre, G., Hur, J., Moore, J., Beremand, P.,
Town, C.D., Bowman, C.L., Craven, M.B., Hansen, T.S., Holt, I.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   BE204615 364 bp mRNA linear EST EST397291 KVO Medicago truncatula cDNA clone pKVO-16J6,
                                                                                                                                                                                                                                                                                                                                                           More information is available at. .
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Fraser,C.M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   barrel medic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BE204615.1 GI:8747903
                                                                                                                                                                                                                                                                                                                                                                                                                                         Email: kvandenb@cbs.umn.edu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  74 a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  from uninoculated seedling roots of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /note-"Vector: Lambda Uni-ZAP XR, excised phagemid; Site_1: ECORI; Site_2: XhoI; Plants were grown under hydroponic conditions at UC bavis, salt stressed for 12 hours, and for 7 days, then dissected and frozen (Akhunov in J Dvorak Lab). Total RNA was prepared from sheath tissue, equal quantities of RNA were pooled from the two samples, polyA was purified from the pooled RNA, a cDNA the pooled RNA, a cDNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Plasmid DNA preparations and DNA performed in the OD Anderson lab 1 58 c 68 g 50 t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  library was made, and the cDNA clones were in vivo excised to give pBluescript phagemids in the TJ Close lab at the University of California, Riverside (Akhunov, Chin, Choi, Close, Fenton, Kianian, Otto, Simons, Zhang).
                  /tissue_type="Seedling roots"
/dev_stage="Immediately prior to inoculation
Sinorhizobium meliloti (0 hour)"
/lab_host="E.coli strain XLOLR"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /clone_lib="Y. Ogihara unpublished cDNA library,
/tissue_type="spikelet at early flowering"
/dev_stage="Feekes' scale 6"
                                                                                                                                                                                                   /organism="Medicago truncatula"
/cultivar="genotype_A17"
                                                                                                                                                           /db_xref="taxon;3880"
/clone="pKV0-16J6"
note="Vector: pBluescript SK -; Site_1: EcoRI; Site_2:
                                                                                                                                clone_lib="KV0"
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Pred. No.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2e+03;
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                                                                                                                                                                                                                                                                                                              gAT CC).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       St. Paul, MN 55108, USA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               others
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RESULT 2 BE204615/c LOCUS

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   BASE COUNT
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1 CTTGGCCGCTGCCAT 15
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BF518720
BF518720.1
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ESTs from leaves of Medicago truncatula after inoculation with
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; Rosidae; eurosids I; Fabales; Fabaceae; Papilionoideae; Trifolieae;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TIGR sequence name: MTFBU18TK
MORE information is available at: http://chrysie.tamu.edu/medicago
Seq primer: Skmod (CTA 9AA CTA 9tg 9AT CC).
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Department of Plant Pathology University of Minnesota
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Email: debbys@puccini.crl.umn.edu
University of Minnesota name: M276140e
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Fax: 651 649 5058
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Contact: Deborah A. Samac
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Unpublished (2000)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Fedorova, M., Pierson, B.L.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Medicago.
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15; Conservative
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helper phage and propagated in XLOLK cells.
be of fungal origin."
a 67 c 96 g 100 t 1 others
                                                                                                                                   /note-"Vector: pBluescript SK-; Site_1: EcoRI; Site_2: XhoI; cDNA was prepared from polyA+ enriched RNA from cotyledons and primary leaves harvested 5 and 8 days after inoculation with Colletotrichum trifolii. The cDNA was directionally ligated into the Uni-ZAP XR vector from Stratagene and packaged using Gigapack III Gold packaging extracts. Plasmids containing cDNA inserts were excised from the containing cDNA inserts were excised
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Stratagene and packaged using Gigapack III Gold packaging extracts. Plasmids containing cDNA inserts were excised from the recombinant lambda-Zap phage using Ex-assist helper phage and propagated in XLOLR cells."

64 c 92 g 100 t
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                                                                                                                                                                                                                                                                                                                                                                                                  /dev_stage="cotyledons and primary leaves harvested 5 and 8 days after inoculation with Colletotrichum trifolii" /lab_host="E. coli strain XLOLR"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /tissue_type="leaves infected with Colletotrichum trifolii"
                                                                                                    from the recombinant lambda-ZAP phage using Ex-Assist
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /clone="pDSIL-17D11"
/clone_lib="DSIL"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /cultivar="genotype A
/db_xref="taxon:3880"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            organism="Medicago truncatula"
cultivar="genotype A17"
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Pred. No.
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Bowman,C.L.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2.2e+03;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Vance, C.P., (
Craven, M.B.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length 364;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gantt,G.S., P., Hansen,T.S.,
                                                                     Note: EST may
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         mRNA sequence.
BF116561
BF116561.1 GI:
EST.
                                                                        BF116561 386 bp mRNA linear EST 29-DEC-2000 uy90f01.yl NCI_CGAP_Mam5 Mus musculus cDNA clone IMAGE:3666841 5' similar to SW:EGR1_MOUSE P08046 EARLY GROWTH RESPONSE PROTEIN 1;
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Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Enarmatophyta; Magnoliophyta; eudicotyledons; core eudicots;
Trifolieae
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AJ503983
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Spermatophyta; Magnoliophyta; eddicotyledons; core eugreus,
Rosidae; eurosids I; Fabales; Fabaceae; Papilionoideae; Trifolieae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Postfach 100131, D-33501 Bielefeld, Germany.
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Bekel,T., Linke,B., Grunwald,U., Franken,P., Kuester,H., Perli
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                                                                                                                                                                                                                                                                                                                                                                    /tissue_type="mycorrhizal roots"
/dev_stage="three weeks"
/dev_stage="three weeks"
/note="Vector: pGEM-T; Site_1: PstI; Site_2: SphI;
/note="Vector: pGEM-T; Site_1: PstI; Site_2: SphI;
/note="Vector: pGEM-T; Site_1: PstI; Site_2: SphI;
/note="three weeks. The pency end of the weeks. The from mycorrhizal roots harvested after three weeks. The folia mycorrhizal roots harvested after three weeks. The cDNA was directionally ligated by MediGenomix into the pGEM-T vector from Promega using GCATGCGGCGAGGGGCGACATG.
and CTGCAGGCCATTATGGCCGGG adapters. Plasmids containing cDNA inserts were propagated in E. coli DH10B cells."

73 c 97 g 100 t 2 others
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/db_xref-"taxon:3880"
/clone-"mtgmadcl:20040g11"
/clone_11b-"MTAMP"
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                                                     Unpublished (1997)
Other_ESTs: uo07f01.x1
Contact: Robert Strausberg,
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Seq primer:
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Tissue Procurement: Jeffrey Green M.D. cDNA Library Preparation: Life Techno
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                                     Email: cgapbs-r@mail.nih.gov
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Tissue Procurement: Lothar Hennighausen Ph.D., Robin Humph
cDNA Library Preparation: Life Technologies, Inc.
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Washington University Genome Sequencin
Clone distribution: NCI-CGAP clone distribution informati
found through the I.M.A.G.E. Consortium/LLNL at:
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Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mu
1 (bases 1 to 386)
NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
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NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap
National Cancer Institute, Cancer Genome Anar
Tumor Gene Index
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Mammalia; Eutheria; Rodentia;
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/dev_stage="7 months"
/lab_host="DH10B"
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/clone="IMAGE:3666841"
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                                                                                                                                                                                                                                                                                                Euteleostomi;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
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Ph.D

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        This sequence encodes a mouse early growth response protein, Egr-1 which is used in a method to inhibit the growth of a tumour in a mammal where the growth is induced by the mitogenic activity of platelet-derived growth factor, PDGF. The method involves directly administering to the tumour a retroviral vector comprising an expression control sequence operatively linked to a nucleic acid sequence encoding a mammalian EGR-1 polypeptide, a nucleic acid sequence encoding a fragment of a nammalian EGR-1 polypeptide comprising the zinc finger domain or a nucleic acid sequence that both hybridises to any of the described nucleic acid sequences, under standard hybridisation conditions, and also encodes a polypeptide that inhibits the mitogenic activity of PDGF. The methods can be used for inhibiting the growth of a tumour such as an osteosarcoma, a filter of the control of a mammalian can be used for inhibiting the growth of a tumour such as an osteosarcoma, a
                                                                                                                                                                                                 Mouse; Egr-1; NGFI-A; transcription factor; DNAzyme; vascular smooth muscle cell; post-angioplasty restenosis; vein graft failure; transplant coronary disease; atherosclerosis; cerebrovascular infarction; stroke; myocardial; heart attack;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Inhibiting the growth of tumours - using a vector encoding mammalian early growth response polypeptide or fragment to the mitogenic activity of platelet-derived growth factor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (ADAM/)
(MERC/)
                              11-JAN-1999;
                                                            11-JAN-2000;
                                                                                           20-JUL-2000
                                                                                                                         WO200042173-A1
                                                                                                                                                        Mus
                                                                                                                                                                                      hypertension;
                                                                                                                                                                                                                                                                               Mouse Egr-1 coding sequence
                                                                                                                                                                                                                                                                                                                30-NOV-2000
                                                                                                                                                                                                                                                                                                                                             AAA74395
                                                                                                                                                                                                                                                                                                                                                                          AAA74395 standard; cDNA; 3068
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 3068 BP; 688 A; 939 C; 705 G; 736 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Disclosure; Fig 2A; 40pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 1999-023510/02
P-PSDB; AAW76984.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Adamson E, Mercola
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           07-APR-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        07-APR-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      17-NOV-1998
(UNIX ) UNISEARCH LTD.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              fibrosarcoma, a glioblastoma, or a breast carcinoma.
                                                                                                                                                                                                                                                                                                                                                                                                                                                          273
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    15; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ADAMSON E.
MERCOLA D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   100.0%;
llarity 100.0%;
Conservative (
                                                                                                                                                                                                                                                                                                            (first entry)
                                                             2000WO-AU00011
                                                                                                                                                                                      peripheral
                             99AU-0008103
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           94US-0224482.
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Pred. No. 2.5
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                          ВP
                                                                                                                                                                                    gangrene;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2.5e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DB 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length 3068;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Indels
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RESULT 8
AAF85130/c
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The present sequence is mouse Egr-1 (also known as NGFI-A and EGR-1). CC Egr-1 is a transcription factor. Egr-1 binds to the promoters of genes whose products influence cell movement and replication in the artery compared to the promoters of genes (also products influence cell movement and replication in the present invention (see AAA74387-A74394), which can cut Egr-1 mRNA with high cefficiency and specificity, resulting in Egr-1 activity inhibition in conscious amount muscle cells. The DNAxymes of the present invention can be used to inhibit EGR-1 activity in cells, inhibit proliferation or comparation e.g. post-angioplasty restenosis, vein graft catheroscience in coronary disease and complications associated with cell catherosclerosis e.g. cerebrovascular infarction (stroke), myocardial configration (heart attack), hypertension or peripheral vascular disease ce.g. gangrene of the extremities. The cells which are treated are convolved in neorolacia preferably smooth muscle or endothelial cells or cells.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local Similarity
Matches 15; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DNAzyme for treating conditions associated with proliferation migration of cells e.g. post-angioplasty restenosis, vein graund hypertension cleaves mRNA molecules encoding EGR-1 - \frac{1}{2}
                                                                                                                                                                                                         03-MAY-2001
                                                                                                                                                                                                                                     WO200130394-A1
                                                                                                                                                                                                                                                                   Mus musculus
                                                                                                                                                                                                                                                                                               skin carcinoma;
                                                                                                                                                                                                                                                                                                           antisense oligonucleotide; prostate tumour; hepatocellular carcinoma;
                                                                                                                                                                                                                                                                                                                           Early growth response factor; EGR; tumour cell;
                                                                                                                                                                                                                                                                                                                                                     Nucleotide sequence of murine early growth response factor-1
                                                                                                                                                                                                                                                                                                                                                                                        09-JUL-2001
                                                                                                                                                                                                                                                                                                                                                                                                                     AAF85130;
                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAF85130 standard; DNA; 3068
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Disclosure; Pages 14-21; 62pp; English.
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                                                        WPI; 2001-300428/31.
                                                                                    Khachigian
                                                                                                                 (UNIX ) UNISEARCH LTD
                                                                                                                                               26-OCT-1999;
                                                                                                                                                                          26-OCT-2000;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           273 CTTGGCCGCTGCCAT 259
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                3068 BP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           in neoplasia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
                                                                                                                                                                           2000WO-AU01315
                                                                                                                                                                                                                                                                                                                                                                                      (first entry)
                                                                                                                                               99AU-0003676
                                                                                                                                                                                                                                                                                               breast tumour;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             688 A; 939 C; 705 G;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AR,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 100.0%;
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Pred. No. 2.5
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                  ВÞ
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DB 21;
2.5e+02
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                                                                                                                                                                                                                                                                                                                           tumour; DNAzyme;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length
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comprises administering age expression of early growth

Treating tumors including prostate tumour,

inhibits

breast tumour, ts induction or

skin carcinoma

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VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                   REFERENCE
AUTHORS
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AR058196/c
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                                                                                                                                                            BASE COUNT
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                                                                                                                                                                                                                                                                                                                                                                                            ACCESSION
                                                                                                                                                                                                                              TITLE
JOURNAL
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MEDLINE
PUBMED
                                                                                                        Query Match
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Best Local
                                                                     Matches.
                                                                                                                                                                                                                                                                                                                      ORGANISM
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     273
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Local Similarity
mes 15; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 CTTGGCCGCTGCCAT 15
                    1 CTTGGCCGCTGCCAT 15
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CTTGGCCGCTGCCAT 259
                                                                                                                                                                                                                        1 (bases 1 to 3068)
Mercola,D. and Adamson,E.
Inhibition of the mitogenic activity of
Patent: US 5837692-A 117-NOV-1998;
                                                                                                                                                                                                                                                                                                                      Unknown
                                                                                                                                                                                                                                                                                                                                                                                            Sequence 1 from patent US AR058196
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 mediates its repressive effect on enhancer function Genes Dev. 7 (10), 1966-1978 (1993) 94010293
                                                                                                                                                                                                                                                                                                                                        Unknown
                                                                                                                                                                                                                                                                                                                                                                           AR058196.1
                                                                                                                                                                                                                                                                                                                                                                                                                               AR058196
                                                                                                                                                                                                                                                                                                     Unclassified.
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                                                                                          Similarity
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                                                                       Conservative
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LHEQQHQLRGKPFACKICGKNFMCSYHLKHQKYSKIRANENTMSCKVCDRYPYKLD
NLCARILKGHLGTQVVKKPEYMCHVCKNCFYSLSTLMIHIRTETGERPFDCDLCDKRF
ALVALKKHRRYHTGEKPYTCTVCSQSFAVKEVLNRHMKRHTGERPHKCNECGKSFIQA
TQLRFHSKTHLRYYACSLCLOKFTTEXGLERTYKDHTROKRASFACTECTRSFETSAL
LKEHLDAGDHSPVKSTRAKRSAKMIERTDCALCDKNFDTFSTLRNHIRKYHECDPDI
LKEHLDAGDHSPVKSTRAKRSAKMIERTDCALCDKNFDTFSTLRNHIRKYHECDPDI
TGTTEPPAKRKAKKTYVAAVAEPOKGQEDDVPARNTSAGSLISSKTDGNGVVVREFLYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEESVLCKVIENCGHDLAKGSEAYAELDYGSRMPILQLLFTVVIHNDSIKALLNNFP]
                                                                                                                                                        /organism="unknown"
939 c 705 g
                                                                                                                                                                                                             Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               EGDGNAQTIDLRKRGLHHLPLEGDKATESTAETDIKAESSKEKPSVSPVVKKEQRKSL
AASLAAAIADNLEEPSSDDEFSGEVLTEEDLKLKENIAKLIDMLVDPQTLKKYGWPNS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SSAPASSAVETAKIKTSPSKKKKMDHYVLQAIKSENNKAENTTSVVVVEDEDTIDFIL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAVASKGASVSPRLKPEKRTSIKILNNNNNDEAQTSTKGGDSVPRPKPPAPASRYRTR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /codon_start=1
/product="Hairy-wing protein"
/protein_id="CAA80976.1"
/db_xref="GI:396677"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         organism-"Drosophila virilis"
/db_xref="taxon:7244"
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CGKCYKTFRRVKSLKKHLEFCRYDSGYHLRKADMLKNLEKIEKDAVVMEKKDISFCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   db_xref="SWISS-PROT:Q08876"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    db_xref="FLYBASE:FBgn0013144"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 translation="MSAQEDALPATPPASSSIKISDGDKPKEKRTGTRMKLLNDVAAK
                                                                                                                                                                                                                                                                                                                                                                        GI:5983773
                                                                                      100.0%;
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                                                                                    Score 15; DB 6;
Pred. No. 2.1e+03;
                                                                                                                                                                                                                                                                                                                                                                                                          3068 bp
US 5837692.
                                                                       Mismatches
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RESULT 12

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REFERENCE
                                                                                                                                                                                       DEFINITION
ACCESSION
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AR012093/c
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ACCESSION
VERSION
                                                                                                                                                        VERSION
KEYWORDS
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                                                                                                                                                                                                                                                                                                                                                                                                                                           BASE COUNT
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LOCUS
                FEATURES
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MEDLINE
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                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ORGANISM
                                                              TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TITLE
                               JOURNAL
                                                                                                                            ORGANISM
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                                                                                                                                                                                                                                                                                                   CTTGGCCGCTGCCAT
                                                                                                                                                                                       Sequence
AR012093
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sukhatme, V.P., Cao, X., Chang, L.C., Tsai-Morris, C.-H., Stamenkovich, D., Ferreira, P.C.P., Cohen, D.R., Edwards, S.A. Shows, T.B.Jr., Curran, T., Le Beau, M.M. and Adamson, E.D. A zinc finger-encoding gene coregulated with c-fos during and differentiation, and after cellular depolarization
                                                                                                                                                                                                                                                                                                                                                                                                                            Unreported.
                               Patent: US 5763209-A 15
                                                                         1 (bases 1 to 3086) Sukhatme, V.P.
                                                                                                                            Unknown
                                                                                                                                           Unknown
                                                                                                                                                                          AR012093.1
                                                                                                                                                                                                                    AR012093
                                                                                                                                                                                                                                                                                                                                                              . Similarity
15; Conserv
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88165055
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Eukaryota; Metazoa;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   and OC3.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Egr-1 gene.
Mouse (strain BALB/c) fibroblast,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     M20157.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mouse Egr-1 mRNA, complete cds. M20157
                                            binding
                                                            Methods and materials relating to the functional domains of
                                                                                                          Unclassified.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Mammalia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (bases 1 to 3068)
                                                                                                                                                                                                                                                                                                                                                                                                                                              889
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sukhatme
                                                                                                                                                                                                                                                                                                                                                              Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              entry and comupter-readable Sukhatme 15-NOV-1988.
                                                                                                                                                                                                      15
                                                                                                                                                                                                                                                                                                                                                                                                                                        SSSFSTSTGLSDMTATFSPRTIEIC"
939 c 705 g 736 t.
Location/Qualifiers
1. .3086
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PYACPVESCDRRFSRSDELTRHIRIHTGQKPFQCRICMRNFSRSDHLTTHIRTHTGEK
PFACDICGRKFARSDERKRHTKIHLRQKDKKADKSVVASPAASSLSSYPSPVATSYPS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APQFLGAAGTPEGSGGNSSSSTSSGGGGGGGSNSGSSAFNPOGEPSEQPYEHLTTESF
SDIALNNEKAMVETSYPSOTTRLPPITYTGRESLEPAPNSGNTLMPEPLFSLVSGLVS
MTNPPTSSSSAPSPAASSSSSASOSPPLSCAVPSNDSSPIYSAAPTFETPUTDITFEP
QSQAFPGSAGTALQYPPPAYPATKGGFQVPMIPDYLFPQQQGDLSLGTPDQKPFQGLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PATTSFPSPVPTSYSSPGSSTYPSPAHSGFPSPSVATTFASVPPAFPTQVSSFPSAGV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Eutheria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GI:193009
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NRTQQPSLTPLSTIKAFATQSGSQDLKALNTTYQSQLIKPSRMRKYPNRPSKTPPHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     'protein_id="AAA37544.1"
'db_xref="GI:309213"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   'note="Egr-1 protein"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   259. .1860
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  'product="Egr-1 mRNA"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            organism="Mus musculus"
db_xref="taxon:10090"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ocation/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   translation-"MAAAKAEMQLMSPLQISDPFGSFPHSPTMDNYPKLEEMMLLSNG
                                                                                                                                                                        GI:3970083
                                                                                                                                                                                                      from patent
                                                                                                                                                                                                                                                                                                                                                                             100.0%;
                                                                                                                                                                                                                                                                                                   259
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Rodentia;
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                                                                                                                                                                                             3086
+ US F
                                                                                                                                                                                                                                                                                                                                                                             Score 15; DB 10;
Pred. No. 2.1e+03;
                                                                                                                                                                                                                                                                                                                                                               Mismatches
                                                                                                                                                                                                      5763209
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Sciurognathi;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CDNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           sequence [1] kindly submitted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  mRNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   to mRNA, clones OC68,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Vertebrata;
                                                                                                                                                                                                                                                                                                                                                                                          Length 3068;
                                                                                                                                                                                                                                                                                                                                                              Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Edwards, S.A.,
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                                                                                                                                                                                                                      PAT
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              CC cells. Also included are methods of predicting at least one toxic chepatotoxicity of a compound or progression of a toxic effect, preferably the CC hepatotoxicity of a compound, comprising detecting the level of CC expression in a tissue or cell sample exposed to the compound of two or CC more genes listed in the specification, where differential expression of CC the genes is indicative of at least one toxic effect or progression of CC The method can also be used to identify an agent which modulates the CC toxic response and predict cellular pathways that a compound modulates CC in a cell. The methods utilise a set of at least two probes (on a solid CC support in kit form), where each of the probes comprises a sequence that CC system comprising a database containing information identifying the expression level in a tissue or cell sample exposed to a hepatotoxin of a cel user interface to view the information used to present information identifying the expression level in a tissue or cell of at least one gene listed in the specification. The method is useful for elucidating global channes are margared and for identifying the gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          밁
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The invention relates to methods for predicting toxic effects of compounds or the progression of these toxic effects by determining the global changes in gene expression in tissues or cells exposed to the toxin and comparing these to gene expression in unexposed tissues or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Predicting toxic effects of compounds or the progression of these effects by determining the changes in gene expression in tissues cells exposed to the toxin and comparing these to gene expression unexposed tissues or cells -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Rat; ss; hep
differential
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Claim 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 2002-241625/29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Mendrick
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (GENE-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               09-JUL-2001;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             18-JUN-2002
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            19-JUN-2001;
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2000US-244880P.
2001US-290029P.
2001US-290645P.
2001US-292336P.
2001US-295798P.
2001US-297457P.
2001US-298884P.
2001US-393459P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ID No 1543;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      LOGIC INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               expression;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Porter MW,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            expressed sequence tag; EST; drug screening; on; centrilobular necrosis; steatosis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 239pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Johnson
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identifying toxicity markers
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Best Local
                                            The present sequence is rat Egr-1 (also known as NGFI-A and EGR-1). Egr-1 is a transcription factor. Egr-1 binds to the promoters of genes whose products influence cell movement and replication in the artery wall. DNA-based enzymes (DNAzymes), have been developed in the present invention (see AAA74387-A74394), which can cut Egr-1 mRNA with high efficiency and specificity, resulting in Egr-1 activity inhibition in vascular smooth muscle cells. The DNAzymes of the present invention can be used to inhibit EGR-1 activity in cells, inhibit proliferation or migration of cells and to treat a condition associated with cell proliferation or migration e.g. post-angioplasty restenosis, vein graft failure, transplant coronary disease and complications associated with cells.
atherosclerosis e.g. cerebrovascular infarction (stroke), myocardial infarction (heart attack), hypertension or peripheral vascular disea e.g. gangrene of the extremities. The cells which are treated are
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       tissues or cell exposed to a known toxin. The genes may be used as toxicity markers in drug screening and toxicity asys. The genes and gene expression information may be used as diagnostic markers for the prediction or identification of the physiological state of tissue or cell sample that has been exposed to a compound or agent. Hepatotoxicity is characterised by centrilobular necrosis and steatosis. The present sequence is an expressed sequence tag (EST) or cDNA derived from a gene which is differentially expressed in response to a hepatotoxic agent.
                                                                                                                                                                                                                                                                                                                                                                                                                      (UNIX)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Rat; Egr-1; NGFI-A; transcription factor; DNAzyme; vascular smooth muscle cell; post-angioplasty restenosis; vein graft failure; transplant coronary disease; atherosclerosis; cerebrovascular infarction; stroke; myocardial; heart attack;
                                                                                                                                                                                                                                                                                                     DNAzyme for treating migration of cells e.
                                                                                                                                                                                                                                                        Disclosure;
                                                                                                                                                                                                                                                                                                                                                        WPI; 2000-476054/41.
                                                                                                                                                                                                                                                                                                                                                                                        Atkins DG,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1 CTTGGCCGCTGCCAT
                                                                                                                                                                                                                                                                                    zyme for treating conditions associated with proliferation ration of cells e.g. post-angioplasty restenosis, vein grainly hypertension cleaves mRNA molecules encoding EGR-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Egr-1 coding sequence
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15; Conser
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Total number of hits satisfying chosen parameters:
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1: gb_ba:*
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137.148 Million cell updates/sec
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SUMMARIES

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TITLE	AUTHORS	REFERENCE		ORGANISM	SOURCE	KEYWORDS	VERSION	ACCESSION	DEFINITION	LOCUS	MUSKROX24A/c	RESULT 1
Charnay, P . The serum-inducible mouse gene Krox-24 encodes a sequence-specific	Lemaire, P., Vesque, C., Schmitt, J., Stunnenberg, H., Frank, R: and	1 (bases 1 to 390)	Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.	Mus musculus	Mouse, cDNA to mRNA.	nuclear protein; transcriptional activator.	M38174.1 GI:198606	M38174	end.	MUSKROX24A 390 bp mRNA linear ROD 27-APR-1993		

Pred. No.

is the number of results predicted by chance to have a

from a nephroblastoma

virus"

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BASE COUNT
ORIGIN
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AC2NK24/c
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Best Local :
                                      ORGANISM
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Submitted (04 MAY-1998) Labrador E., Dpto. Univ. Salamanca, Campus Miguel de Unamuno. Reina s/n, 37007-Salamanca, SPAIN 2 (bases 1 to 953)

Dopico,B., Esteban,R. and Labrador,E. CDNA expressed in chickpea epicotyls
                    Avian carcinoma virus
Viruses; Retroid viruses;
                                                               c-myc proto-oncogene; fos gene.
Avian transforming proviral retrovirus
nephroblastoma, passed in quail embryo
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15; Conserv
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Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
Rosidae; eurosids I; Fabales; Fabaceae; Papilionoideae; Cicereae;
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Avian transforming
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                                                       clone 2401.
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KPGPHKTQGTGAGFVPGVLEVNLIDEVTQTSSDEATETAKLLALKEGLFVGTSSGAAA
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/translation="AEEKGLITPGQSVLIEPTSGNTGIGLAFMAAAKGYKLIITMPAS
MSLERRIILLAFGAELVLTDPAKGMKGAVQKAEEILAKTPNAYILQQFENPANPKVHY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /cultivar="Castellana"
/db_xref="taxon:3827"
/clone="CanCYS"
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/dev_stage="5 day old seedlings"
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NK24 v-fos
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                                                Structure, chromosome mapping and regulation of the mouse zinc-finger gene Krox-24; evidence for a common regulator; for immediate-early serum-response genes gene 80 (2), 325-336 (1989)
                                                                                                                                                                                                                                                                                                                                                                                                                                                    l Similarity
15; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      An avian transforming retrovirus isolated that carries the fos gene as the oncogene J. Virol. 61 (12), 3733-3740 (1987)
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                                                                                                              Charnay, P.
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Janssen-Timmen, U., I
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                                              for immediate-early : sene_80 (2), 325-336
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QDECTDLAVSSANGVPTVTAISTSPDLQWLVQPTLISSVAPSQNRGHPYGVPAPAPPA
AVSRPAVLKAPGGROGSIGRGKVEQUSPEEEEKRITRERNKHAAAKCRNRERELTD
TLQAETDQLEEEKSALQAEIANLLKEKEKLEFILAAHFACKMPEELLFSAGPREASR
LDLGAPSPAAAEEAFPALPLMTEAPPAVPPKEPSGSGLELKAEPFDELLFSAGPREASR
SVPDMDLPGASSFYASDWEPLGAGSGGELEPLCTPVVTCTPCPSTYTSTFVFTYPEAD
Location/Qualifiers
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1255. .1256
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /product="gag/NK24 fusion protein"
/protein_id="AAA66158.1"
/db_xref="GI:209655"
                                                                                                                                                                                                                                                          GI:342026
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Pred. No.
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Sciurognathi; Muridae;
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2.1e+03;
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AL373362
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                                                                                                                                                                                        BP 191 91006 EVRY cedex - France

Email: seqref@genoscope.cns.fr, Web: www.genoscope.cns.fr

Contact: Pascal Gamas and Etienne-Pascal Journet, Laboratoire

Biologie Moleculaire des Relations Plantes-Microorganismes,
                                                                                                                                                                                                                                                                          Contact: Genoscope
Genoscope - Centre National de Sequencage
                                                                                                                                                                                                                                                                                                                         Medicago truncatula ESTs from nitrogen-starved Unpublished (2000)
                                                                                                                                                                                                                                                                                                                                                                               1 (bases 1 to 409)
Journet, E.P., Crespeau, H., van-Tuinen, D.,
Niebel, A., Carreau, V., Chatagnier, O., Kahr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; Rosidae; eurosids I; Fabales; Fabaceae; Papilionoideae; Trifolieae
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                                                                                                                                           CNRS-INRA, BP 27 31326 Castanet-Tolosan Cedex, Mt-estétoulouse.inra.fr Website:
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                                                                                                                            http://sequence.toulouse.inra.fr/Mtruncatula.html).
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Site_2: Not1; Cloned unidirectionally. Primer: Oilgo of
Library constructed by Life Technologies. Investigator
providing samples: Jeffrey Green, M.D., NIH"
168 c 111 g 63 t 1 others
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/sex="female, virgin"
/tissue_type="infiltrating ductal carcinoma"
/dev_stage="5 months"
/lab_host="DH108"
/cultivar-"Jemalong"
/db_xref-"taxon:3880"
/clone-"MtBA57D03"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /organism="Mus musculus"
/strain="FVB/N"
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                                                            /organism="Medicago truncatula"
                                                                                                       ocation/Qualifiers
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Pred. No. 2.2e+03;
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15; Conserv
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                                                                                                                                                                                                                                                                                                                                        More information is available at: http://chrysie.tamu.edu/medicago
Seq primer: SKmod (CTA gAA CTA gtg gAT CC).
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Department of Plant Pathology
University of Minnesota
495 Borlaug Hall, 1991 Upper Buford Circle,
Tel: 612 625 1243
Fax: 651 649 5058
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Unpublished (2000)
Contact: Deborah A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Fedorova, M., Pierson, B.L., Samac, D.A., Vance, C.P., Gantt, G.S., H., Ellis, L., Town, C.D., Bowman, C.L., Craven, M.B., Hansen, T.S. Holt, I.E. and Fraser, C.M.

ESTs from leaves of Medicago truncatula after inoculation with
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Bukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
Rosidae; eurosids I; Fabales; Fabaceae; Papilionoideae; Trifolieae;
                                                                                                                                                                                                                                                                                                                                                                                                                   Email: debbys@puccini.crl.umn.edu
University of Minnesota name: M276678e
TIGR sequence name: MTFCE65TK
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/note="vector: pBluescript pSK; Site_1: EcoRI; Site_2:
xhoI; Plants were grown in an aeroponic chamber for 14
days on nitrogen-rich medium followed by 3 days on N-free
medium. RNA was extracted from root tips (1-3 cm). CDNA
was prepared from polyA+ enriched RNA. The cDNA was
directionally ligated into Uni-zapXR vector from
Stratagene and packaged using Gigapack Gold packaging
extracts. Plasmids containing cDNA inserts were
mass-excised from phage stocks using ExAssit helper phage
and propagated in SOLR cells. Clone ordering and
sequencing was performed by the Centre National de
                   /dev_stage="cotyledons and primary leaves harvested 5 and 8 days after inoculation with Colletotrichum trifolii" /lab_host="E. coli strain XLOLE" /note="Vector: pBluescript SK~; Site_1: EcoRI; Site_2: XhoI; cDNA was prepared from polyA+ enriched RNA from cotyledons and primary leaves harvested 5 and 8 days after
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83 c 100 g 99 t
                                                                                                                                                                                                                            /organism="Medicago truncatula"
/cultivar="genotype A17"
/db_xref="taxon:3880"
/cione="pDSIL-20K9"
                                                                                                                                                            /tissue_type="leaves infected with Colletotrichum
trifolli"
                                                                                                                                                                                                             /clone_lib="DSIL"
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L. The cDNA was
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                                                                                                                                                                                                                                                                                           CTTGGCCGCTGCCAT 336
Medicago truncatula
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnollophyta; eudicotyledons; core eudicots;
Sosidae; eurosids I; Fabales; Fabaceae; Papilionoideae; Trifolieae
                                                                                                               AW127154.2 GI:7771071
EST.
                                                                                                                                                     M110088 GVN Medicago truncatula
AW127154
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Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
Rosidae; eurosids I; Fabales; Fabaceae; Papillonoideae; Trifolieae
                                                                                               barrel medic.
                                                                                                                                                                                            AW127154
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Email: vance004@maroon.tc.umn.edu
Date: 9/28/99; Updated to the Database of Expressed Sequence Tags
(dbbST) on 04/27/00; More information is available at
'http://chrysie.tamu.edu/medicago'.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              On Dec 2, 1999 this sequence version replaced gi:6507422
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ESTs from Medicago truncatula roots infected with Phytophthora
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Tel: 612 625 5715
Fax: 651-649-5058
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Department of Agronomy and Plant Genetics University of Minnesota
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Fedorova,M., Pierson,B.L., Samac,D.A., Gantt,J.S.,
Gonzales,M.B. and Ellis,L.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Contact: Carroll P. Vance
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Unpublished (2000)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                               origin."
a 82 c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /note-"Vector: pBluescript SK-; Site_1: EcoRI; Site_2: XhOI; cDNA was prepared from polyA+ enriched RNA from roots harvested at 10 days post inoculation with Phytophthora medicaginis. The cDNA was directionally ligated into the Uni-ZAP XR vector from Stratagene and packaged using Gigapack III Gold packaging extracts. Plasmids containing cDNA inserts were excised from the recombinant lambda-ZAP phage using Ex-Assist helper phage and propagated in XIOLR cells. Note: EST may be of fungal origin.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              medicaginis"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /dev_stage="roots harvested at 10 days post inoculation with Phytophthora medicaginis" /lab_host="E. coli strain XLOLR"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /tissue_type="roots infected with Phytophthora
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /db_xref="taxon:3880"
/clone="IR58"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /organism="Medicago truncatula"
/cultivar="genotype A17"
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                                                                                                                                                                                                                                                                                                                                                                                                    Length 429;
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        core eudicots;
ionoideae; Trifolieae;
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                                                                                                                                                                   sequence
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REFERENCE
AUTHORS
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AW321427/c
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CTTGGCCGCTGCCAT 103
                Tumor Gene Index
Unpublished (1997)
Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: Jeffrey Green M.D.
cDNA Library Preparation: Life Techno
                                                                                                                                                                                                                                                                                                                               sequence.
AW321427
                                                                                                                                                                                                                                                                                                                                                                AW321427
443 bp mRNA linear EST 25-JAN-2000 u031f11.yl NCI_CGAP_Mam6 Mus musculus cDNA clone IMAGE:2631117 5' similar to gb:M20157 Mouse Egr-1 mRNA, complete cds (MOUSE);, mRNA
                                                                                                                                                                                  Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; I
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae;
1 (bases 1 to 443)
                                                                                                                                                                                                                                                 Mus musculus
                                                                                                                                      NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
                                                                                                                                                                                                                                                                    house mouse.
                                                                                                                                                                                                                                                                                                            AW321427.1
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Date: 9/8/99; Updated to the Database of (dbEST) on 04/27/00; More information is
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Tel: 612 625 5715 Fax: 651-649-5058
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Department of Agronomy and Plant Genetics University of Minnesota
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On Oct 25, 1999 this sequence version
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Fedorova,M., Pierson,B.L., Samac,D.A.,
Gonzales,M.B. and Ellis,L.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Similarity
cDNA Library Preparation: Life Technologies, Inc. cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Stratagene and packaged using Gigapack III Gold packaging extracts. Plasmids containing cDNA inserts were excised from the recombinant lambda-ZAP phage using Ex-Assist helper phage and propagated in XLOLK cells."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /note="Vector: pBluescript SK-; Site_1: Ecor1; Site_2: Xho1; cDNA was prepared from polyA+ enriched RNA from effective root nodules harvested one month post inoculation with Sinorhizobium meliloti. The cDNA was directionally ligated into the Uni-ZAP XR vector from
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /dev_stage="effective root nodules harvested one month post inoculation with Sinorhizobium meliloti" /lab_host="E. coli strain XLOLR"
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/cultivar="genotype A17"
/db_xref="taxon:3880"
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Maximum Match 100%
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Copyright (c) 1993 - 2002 Compugen Ltd
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BE204615 EST397291
BF516720 EST456171
AJ503983 AJ503983
BF115561 U990f01.y
AW209329 u007f01.y
                                                                                    Description
                                                                                                                                 COMMENT
                                                                                                                                                       REFERENCE
AUTHORS
TITLE
                                                                                                                                                                                                                                        VERSION
KEYWORDS
SOURCE
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BJ320065/c
                                                FEATURES
                                                                                                                                                                                                                                                                                                    DEFINITION
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                                                                                                                                                                                                                             ORGANISM
                                     source
                                                                                                                              Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; Pooldeae; Triticeae; Triticum.

1 (bases 1 to 255)

1 (bases 1 to 255)

20jihara, Y. and Murai, K.

Expressed genes in Triticum aestivum

Unpublished (2002)

Contact: Tadasu Shin-i
                                    Email: tshini@genes.nig.ac.jp.
Location/Qualifiers
1. .255
                                                                     Center For Genetic Resource Information National Institute of Genetics 1111 Yata, Mishima, Shizuoka 411-8540, Japan Tel: 81-559-81-6855 Fax: 81-559-81-6855
                                                                                                                                                                                                                                                             BJ320065
BJ320065.1 GI:20123819
                                                                                                                                                                                                                                                                                  BJ320065 Y. Ogihara unpublished cDNA library, Wh_yf Triticum aestivum cDNA clone whyf13f09 3', mRNA sequence.
                                                                                                                                                                                                                             Triticum aestivum
                                                                                                                                                                                                                                                     EST
                                                                                                                                                                                                                                         bread wheat.
                                                                                                                                                                                                                                                                                                                                                                                                            /organism="Triticum aestivum"
/cultivar="Chinese Spring"
/db_xref="taxon:4565"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AL373362
BF519247
B0140289
AW911108
AW207985
AW1277154
AW321427
B1272170
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BG586431
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BE203605 EST396281
BF520604 EST458077
AW559351 EST314399
BF634953 NF076H06D
BF645970 NF043D03E
BF320644 UZ55b11.9
BH084990 RPCT-24-2
BG448073 NF105H03E
BB631108 BB631108
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    BF519247 EST456709
BQ140289 NF034A02P
AW911108 URB2999.y
AW207985 M111006e
AW127154 M110088 G
AW321427 U031f11.y
BI272170 NF021E02F
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AL381682 MtBC02D03
BG448249 NF107H01E
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BB636948 NF071211L EST334599 BJ314563 BJ320048 BJ320048 NF100C02D EST530607 NF113H01P NF0710D11P EST6408119 NF074D112 NF074D112 NF074D114

EST433742

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Best Local Similarity
Matches 15; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         method of the invention. The method is for inhibiting the proliferation of cells, and comprises inhibiting induction or decreasing expression of Egr-1, or decreasing the nuclear accumulation or activity of the Egr-1 gene product. The method can be used to inhibit proliferation of cells, migration of cells to sites of injury and remodelling of vascular wall associated with atherosclerosis or restenosis and especially to reduce the incidence of restenosis by administration of an agent effective in
Bigr-1 (also known as EGR-1 and NGFI-A) is a transcription factor. Egr-1 binds to the promoters of genes whose products influence cell movement and replication in the artery wall. DNA-based enzymes (DNAzymes), have been developed in the present invention, which can cut Egr-1 mRNA with high efficiency and specificity, resulting in Egr-1 activity inhibition in vascular smooth muscle cells. The DNAzymes can be used to inhibit EGR-1 activity in cells, inhibit proliferation or migration of cells and to treat a condition associated with cell proliferation or migration e.g
                                                                                                                                                           DNAzyme for treating conditions associated with proliferation or migration of cells e.g. post-angioplasty restenosis, vein graft and hypertension cleaves mRNA molecules encoding EGR-1 - \alpha
                                                                                                                                                                                                                       WPI;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Claim 11;
                                                                                                                                                                                                                                                                                                                                                    11-JAN-2000; 2000WO-AU00011.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Rat; Egr-1; NGFI-A; transcription factor; DNAzyme; vascular smooth muscle cell; post-angioplasty restenosis; vein graft failure; transplant coronary disease; atherosclero; cerebrovascular infarction; stroke; myocardial; heart attack;
                                                                                                                                Disclosure; Page 5; 62pp; English.
                                                                                                                                                                                                                                                   Atkins DG,
                                                                                                                                                                                                                                                                                                                          11-JAN-1999;
                                                                                                                                                                                                                                                                                                                                                                                                             WO200042173-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                           Rattus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Rat AS2 sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     30-NOV-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAA74448;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    reducing
                                                                                                                                                                                                                                                                             (UNIX ) UNISEARCH LTD.
(JOHJ ) JOHNSON & JOHNSON RES PTY LTD.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     hypertension;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                     peripheral
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); Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                   gangrene; neoplasia; ss
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CTTGGCCGCTGCCAT 15

Query Match Best Local S Matches 15

Similarity 15; Conserv

Conservative

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Score 15; DB Pred. No. 2e+); Mismatches

2e+02;

DB

22; 0

Length

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Gaps

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100.0%;

Sequence

15

BP; 1 A;

6 C; 4

3

4 T;

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RESULT 3
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Best Local
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                    The present sequence represents an antisense oligonucleotide, which targets an early growth response factor (EGR) gene. The specification describes a method for inhibiting the growth or proliferation of a tumour cell and treating tumours. The method comprises contacting a tumour cell or administering to a subject, an agent which inhibits induction, decreases expression or which decreases the nuclear accumulation or activity of EGR. The agent is a DNAzyme or an antisense oligonucleotide. The method is useful for treating solid tumours, including prostate tumours, hepatocellular carcinoma, skin carcinoma or breast tumours.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                skin
                                                                                                                                                                              Claim
                                                                                                                                                                                                       Treating tumors including prostate tumour, breast tumour, comprises administering agent which inhibits induction or expression of early growth response factor-1
                                                                                                                                                                                                                                                                                                                                                                                                                          03-MAY-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                      WO200130394-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Early growth response factor; EGR; tumour cell; tumour; DNAzyme; antisense oligonucleotide; prostate tumour; hepatocellular carcinoma;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Antisense
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                                                                                                                                                                                                                                                                                                   Khachigian
                                                                                                                                                                                                                                                                                                                                                               26-OCT-1999;
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                                                                                                                                                                                                                                                                                                                               (UNIX ) UNISEARCH
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                                                                                                                                                                          8; Page 49; 80pp; English
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          oligonucleotide which targets an
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                breast tumour;
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Pred. No. 2e+
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TTORNEY/AGENT INFORMATION:

REGISTRATION NUMBER:

38,414

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                                                                                                                                                                                                                                                                                                                                                                                                                  LENGTH: 25
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-164-907-12
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Best Local Similarity
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                                                                                                                                                                                            GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SOFTWARE: PatentIn Ver. 2.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NUMBER OF SEQ ID NOS: 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    EARLIER APPLICATION NUMBER: 08/626,169
EARLIER FILING DATE: 1996-03-29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CURRENT APPLICATION NUMBER: US/09/164,907A CURRENT FILING DATE: 1998-10-01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TELEFAX: (512) 474-7577 INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PPLICANT: RUSSELL, DAVID W.
PPLICANT: THIGPEN, ANICE FOR DETECTION, DIAGNOSIS AND PROGNOSIS OF
TITLE OF INVENTION: PROSTATE CANCER
                                                                                                                                                                                                          tent No.
COMPUTER READABLE FORM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               LE REFERENCE: UROC:
                                                                                                     CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   REFERENCE/DOCKET NUMBER: UR
TELECOMMUNICATION INFORMATION:
TELEPHONE: (512) 418-3000
                                                                                                                                                                                APPLICANT:
                                                                                                                      TUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                               15 CTTGGCCGCGGCCAT 1
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STRANDEDNESS: singl
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                20007-5109
                                                        Washington
                                                                                                                                                                                                            5, Application US/08760075A 5942429
                                            D.C
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                                                                        3000 K Street, N.W.,
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                                                                                                                                           MUELLNER, Stefan
BARTLETT, Robert
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                                                                                                                                                                             KIRSCHBAUM, Bernd
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                                                                                       Foley & Lardner
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                                                                                                                                  NOVEL DEAH-BOX PROTEINS
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93.38;
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Pred. No. 2
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Pred. No. 2.
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                                                                        Suite 500
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US-09-338-546-15/c
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Matches
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Patent No. 62210.
THERAL INFORMATION:
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                                                                                            COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                 APPLICANT: KIRSCHAAUM, Bernd
APPLICANT: MCELLNER, Stefan
APPLICANT: BARTLETT, ROBERT
TITLE OF INVENTION: NOVEL DEAH-BOX PROTEINS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE CHARACTERISTICS:
LENGTH: 612 base pairs
TYPE: nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRIOR APPLICATION DATA:
APPLICATION NUMBER: DE 19545126.0
FILING DATE: 04-DEC-1995
ATTORNEY/AGENT INFORMATION:
                                 PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                         CORRESPONDENCE ADDRESS
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                                                                                                                                                                                                                                                                                                       TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 339 CTTGGCCGCTGACAT 325
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NAME/KEY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS SOFTWARE: Patentin Release #1.0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Local Similarity
mes 14; Conserv
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FILING DATE: 04-DEC-1996
APPLICATION NUMBER: US/0 FILING DATE: 04-DEC-1996
                                                   CLASSIFICATION:
                                                                FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NAME/KEY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NAME: GRANADOS, Patricia REGISTRATION NUMBER: 33,6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CLASSIFICATION:
                                                                             APPLICATION NUMBER:
                                                                                                                                                                                          COUNTRY: USA
ZIP: 20007-5109
                                                                                                                                                                                                                                       CITY: Washington
                                                                                                                                                                                                                                                         STREET:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1 CTTGGCCGCTGCCAT 15
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                                                                                                                                                                                                                                                      E: Foley & Lardner
3000 K Street, N.W.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (202)672-5300
(202)672-5399
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1..612
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                US/08/760,075
                                                                             US/09/338,546
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Pred. No. 2.7e
0; Mismatches
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                                                                                                                                                                                                                                                       Suite 500
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2.7e+02;
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Gaps

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CATION NUMBER:

DE 19545126.0

SENERAL INFORMATION:

Houng, Huo-Shu H.

Application US/08855714

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; ORGANISM: BRUCELLA MELITENSIS US-08-855-714-1
                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local Similarity
Matches 14; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TELEFAX: (301) 619-77
                                                                                                                                                       ENERAL INFORMATION:
                                                                                                                                                                      ent No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COMPUTER READABLE FORM:
MEDJUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
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LENGTH: 1920 base pair
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: Warren, Richard L.
TITLE OF INVENTION: MUTANTS OF BRUCELLA MELITENSIS
                                                                                                                                                                                                                                                                                                                                                                                                                                                           ANTI-SENSE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       HYPOTHETICAL:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TOPOLOGY: unknown
MOLECULE TYPE: DNA (genomic)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         REFERENCE/DOCKET NUMBER: 08
RELECOMMUNICATION INFORMATION:
TELEPHONE: (301) 619-2065
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                                                                                                                                         APPLICANT:
                                                                                                                                                                                                                                                                        409 CATGGCCGCTGCCAT 423
                                                  ITLE OF INVENTION: DNA Encoding Mammalian ITLE OF INVENTION: Phosphodiesterases
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CITY: Frederick
                                                                                                                                                                                                                                                                                         1 CTTGGCCGCTGCCAT 15
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ILING DATE: 04-NOV-1994 ORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            LING DAIL.
ASSIFICATION: 424
OR APPLICATION DATA:
US 08/334,129
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DEDNESS: both
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5389527
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                                                                                 Beavo, Joseph A.
Bentley, Kelley
Charbonneau, Harry
Sonnenburg, William K.
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John Moran, Esq.
MCAMRDC, Dept. of Army, Fort Detrick
Marshall, O'Toole, Gerstein, Murray
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Pred. No. 2.
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Search completed: December 16, 2002, 14:16:48 Job time : 69 secs
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                                                                                                                                             Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICATION NUMBER: US/07/872,644
FILING DATE: 19920420
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/688,356
FILING DATE: 04-APR-1991
ATTORNEY,AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                   TELEFAX: (312) 984-97.
TELEX: 25-3856
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0,
                                                                                                                                                                                                                                                           STRANDEDNESS:
TOPOLOGY: lin
MOLECULE TYPE:
                                                                                                                                                                                                                                             FEATURE:
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                                                                                                                                                                                                                                                                                                                                                                                                                    TELECOMMUNICATION INFORMATION:
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STREET: Two First Na
STREET: Street
CITY: Chicago
                                                                858 CTTTGCCGCTGCCAT 872
                                                                                                                                                                                                         NAME/KEY: CDS
LOCATION: 100.,1689
                                                                                                                                                                                                                                                                                                                                                                                                                                   NAME: No. 5389527and, Greta
REGISTRATION NUMBER: 35,302
REFERENCE/DOCKET NUMBER: 27
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                                                                                                1 CTTGGCCGCTGCCAT 15
                                                                                                                              14;
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EDNESS: single
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                                                                                                                                                                                                                                                                                                                     2291 base pairs
                                                                                                                              Conservative
                                                                                                                                                                                                                                                                                                                                                                                      : (312) 346-5750
(312) 984-9740
                                                                                                                                                                                                                                                                           linear
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                                                                                                                                           89.3%;
93.3%;
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Pred. No. 2
                                                                                                                              Mismatches
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                                                                                                                                               2.7e+02
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COMMENT
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     BASE COUNT
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Best Local S
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          source
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BQ140289
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Plant Biology Division
The Samuel Roberts Noble Foundation
2510 Sam Noble Parkway, Ardmore, OK 73402, USA
Tel: 580 221 7317
Fax: 580 221 7380
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 (Dases 1 to 421)
1 (Dases 1 to 421)
Watson,B.S., Shin,H.-S., Lopez-Meyer,M., Scott,A.D., Harris,A.R.,
Gonzales,R.A., Bell,C.J., Inman,J.T., Waugh,M.E., Sullivan,J.P.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gonzales,R.A., Bell,C.J., Inman,J.T., Waugh,M.E., Sullivan,J.P., May,G.D. and Paiva,N.L.
Expressed Sequence Tags from the Samuel Roberts Noble Foundation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Email: nlpaiva@noble.org
Insert Length: 421 Std Err
Plate: 034 row: A column:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Medicago truncatula Phoma-infected library Unpublished (2002)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Medicago truncatula
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Contact: Paiva NL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
Rosidae; eurosids I; Fabales; Fabaceae; Papilionoideae; Trifolieae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      barrel medic
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    Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              120
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                                                             /dev_stage="Pathogen-induced, young trifoliate"
//dev_stage="Pathogen-induced, young trifoliate leaves
//note="Vector: pBluescript SK(-); Young trifoliate leaves
of Medicago truncatula were excised and dip-inoculated in
a spore suspension of phoma medicaginis, and incubated in
humid dishes. Pools of leaves were harvested at 0, 15, and
30 minutes and 1, 2, 3, 6, 14, 24, 48, 72, and 96, hours,
and used to prepare total RNA prepared from
polyA+ enriched, pooled samples of equivalent amounts of
total RNA from each sample. The cDNA was directionally
ligated into the Uni-Zap XR vector (Stratagene) and
packaged using the Gigapack III Gold packaging extracts.
Phagemids containing cDNA inserts were in vivo excised
from the recombinant Uni-Zap XR vector using Exassist
helper phage and the E. coli strain XLI-Blue MRF.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               directionally ligated into the Uni-ZAP XR vector from Stratagene and packaging Gigapack III Gold packaging extracts. Plasmids containing cDNA inserts were excised from the recombinant lambda-ZAP phage using Ex-Assist helper phage and propagated in XLOLR cells. Note: EST may
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           be of fungal origin.
a 74 c 112 g
                                              helper phage and the E. (Stratagene). Excised p
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /organism="Medicago truncatula"
/db_xref="taxon:3880"
                                                                                                                                                                                                                                                                                                                                                                                                                                                   'clone_lib="Phoma-infected"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          'clone="NF034A02PH"
                                                                                                                                                                                                                                                                                                                                                                                                                         'tissue_type="leaf"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         100.0%;
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Pred. No. 2.3
0; Mismatches
  98 g
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                                                plasmids were plated using SOLF
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2.3e+03;
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  2 others
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similar to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Unpublished (1997)
Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nlh.gov
Tissue Procurement: Jeffrey Green M.D.
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15; Conser
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Seq primer: -40RP from Gibco
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cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
image.llnl.gov/image/html/iresources.shtml
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National Cancer Institute, Cancer Genome Anat
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                                                                                                                                                                                                                     /note="Organ: manmary; Vector: pCMV-SPORT6; Site_1: SalI; Site_2: NotI; Cloned unidirectionally, Primer: Oligo dT. Library constructed by Life Technologies. Investigator providing samples: Jeffrey Green, M.D., NIH"

a 150 c 127 g 63 t
                                                                                                                                                                                                                                                                                                                      /db_xref="taxon:10090"
/clone="IMAGE:3156832"
/clone_lib="NCI_CGAP_Mam6"
/clone_lib="NCI_CGAP_Mam6"
/sex="female, virgin"
/tissue_type="infiltrating ductal carcinoma"
/dev_stage="5 months"
                                                                                                                                                                                                                                                                                                                                                                                                                                      /strain="FVB/N"
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gb:M20157 Mouse Eg
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                                                                                                                                                     2.3e+03;
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AW207985 M111006e

DSIR Medicago truncatula

cDNA clone IR58,

mRNA sequence.

information can be Sequencing Center

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RESULT 14
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                                                                                                                                                                                                                                                                                                                                                Medicago truncatula flower library Unpublished (2001) Contact: May GD
                                                                                                                                                               Email: gdmay@noble.org
Insert Length: 451 Std Error: 0.0
Plate: 021 row: E column: 02
Seq primer: TCACACAGGAAACAGCTATGAC.
                                                                                                                                                                                                                                                                                    Plant Biology Division
The Samuel Roberts Noble Foundation
OK
                                                                                                                                                                                                                                                                                                                                                                                                     Torres-Jerez,I., Scott,A.D., Harris,A.R., Gonzales,R.A., Bell,C.J., Flores,H.R., Inman,J.T., Weller,J.W. and May,G.D. Expressed Sequence Tags from the Samuel Roberts Noble Foundation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; Rosidae; eurosids I; Fabales; Fabaceae; Papilionoideae; Trifolieae;
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NF021E02FL1F1018 Developing flower
NF021E02FL 5', mRNA sequence.
BI272170
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High quality sequence stop: 413.
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Site_2: Not1; Cloned unidirectionally. Primer: Oligo of Library constructed by Life Technologies. Investigator providing samples: Jeffrey Green, M.D., NIH"
182 c 122 g 64 t
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                                                                                                                                            Location/Qualifiers
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                                                                                                                         Email: genome res@gsc.riken.go.jp,
URL:http://genome.gsc.riken.go.jp,
Carninci,P., Shibata,Y., Hayatsu,N., Sugahara,Y., Shibata,K., It
,M., Konno,H., Okazaki,Y., Muramatsu,M. and Hayashizaki,Y.
Normalization and subtraction of cap-trapper-selected cDNAs to
prepare full-length cDNA libraries for rapid discovery of new
genes. Genome Res. 10 (10), 1617-1630 (2000)
wagi,K., Fujiwake,S., Inoue,K., Togawa,Y., Izawa,M., Ohara,E.,
Watahiki,M., Yoneda,Y., Ishikawa,T., Ozawa,K., Tanaka,T., Matsuu
,S., Kawai,J., Okazaki,Y., Muramatsu,M., Inoue,Y., Kira,A. and
Hayashizaki,Y.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      BB862529 RIKEN full-length enriched, poc
cDNA clone G430028C23 5', mRNA sequence.
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                                              RIKEN integrated sequence analysis (RISA) system--384-format sequencing pipeline with 384 multicapillary sequencer. Genome 10 (11), 1757-1771 (2000)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Contact: Yoshihide Hayashizaki
Laboratory for Genome Exploration Research Group, RIKEN
Sciences Center(GSC), Yokohama Institute
The Institute of Physical and Chemical Research (RIKEN)
1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-Tel: 81-45-503-9222
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Mammalia; 1
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Konno, H., Fukunishi, Y., Y. and Hayashizaki, Y.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (bases 1 to 459)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ALI-Blue MRF' (Stratagene). Excised plasmids were plated using SOLR cells."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         very young, developing, fully-opened flowers
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Pred. No. 2.3
0; Mismatches
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                          Shibata, K.,
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                    Itoh, M., Carninci, P.,
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Kira,A. and
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for the mouse full-length cDNA

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CC The present invention describes substantially purified human proteins CC (referred to as open reading frame, ORFX, where X is 1-11491 (see Table 1 CC in the specification). ABN15762 to ABN27252 encode the human ORFX CC proteins given in ABP00010 to ABP11500. ORFX proteins are useful for CC disorder in humans, and in the manufacture of a medicament for treating a CC syndrome associated with ORFX-associated disorder. ORFX pynucleotide Sequences can be used in gene therapy. ORFX sequences can be used in the CC treatment of cancer, hyperproliferative disorders, cirrhosis of liver, CC psoriasis, benign tumours, keloid, degenerative disorders related to organ CC taugus erythematosus, hypertension, hypothyroidism, cholesterol ester CC storage disease, various immune deficiencies and disorders; infectious CC arthritis, autoimmune thyroiditis, mysathenia gravis, graft-versus-host CC diseases and autoimmune inflammatory eye disease. ORFX proteins are also useful for treating burns, incisions, ulcers, for treating osteoporosis, CC usefusion injury in various tissues and conditions resulting from CC systemic Cytokine damage.

CC NB. The sequence data for this nates did not form part of the principal data for this nates of the form part of the principal data for this nates of the form part of the principal data for this nates of the form part of the principal data for this nates of the form part of the principal data for this nates of the form part of the principal data for this nates of the principal data for th
Query Match
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Matches 14
                                                                                                                                                                                                                                                                      N.B. The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Novel human polypeptides and polynucleotides useful for diagnosing, preventing and treating cardiovascular disease, neurodegenerative, hyperproliferative disorders and autoimmune disorders
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                                                                                                                                                                                     Sequence 501
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Disclosure; SEQ ID 2537; 1037pp; English.
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29-AUG-2000; 2000US-228716P.
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93.3%; Score 14; ilarity 100.0%; Pred. No. Conservative 0; Mismatcl
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Search completed: December 16, 2002, 12:41:33 Job time: 304 secs

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Result
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Maximum DB
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15
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Listing first 45 summaries
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/cgn2_6/ptodata/1/pubpna/US60_NEW_PUB.seq:*
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ign2_6/ptodata/1/pubpna/US08_PUBCOMB.seq:*
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_6/ptodata/1/pubpna/US06_PUBCOMB.seq:*
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US-09-917-800A-1543
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US-09-864-761-27552
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US-09-864-761-2313
US-09-960-352-13961
US-09-960-352-1961
US-09-960-352-1962
US-09-960-352-11963
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5464, Ap

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606, 1	598.	8849	e 10566	e 961,	e 632,	Sequence 961, App	e 632, F	138	e 1115	580	30.	229,	e 81	128	555	Sequence 61, Appl	e 40,	151, Ap	e 3721	320.	w	16	თ თ	5	Sequence 31, Appl

ALIGNMENTS

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Sequence 1555, Application US/09960352

Patent No. US20020137139A1

GENERAL INFORMATION:
APPLICANT: Warren, Wesley C.
APPLICANT: Tao, Nengbing
APPLICANT: Tao, Nengbing
APPLICANT: Byatt, John C.
APPLICANT: Wathialagan, Nagappan
TITLE OF INVENTION: NUCLEIC ACID AND OTHER MOLECU
TITLE OF INVENTION: MUSCLE AND FAT DEPOSITION
FILE REFERENCE: 16511.006/37-721(10298)C
CURRENT APPLICATION NUMBER: US/09/960,352
CURRENT FILING DATE: 2001-09-24
NUMBER OF SEQ ID NOS: 15112
SEQ ID NO 1555
LENGTH: 433
                                                                                                                                                                                                     RESULT 2
US-09-917-800A-1543/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ; ORGANISM: Bos taurus
; OTHER INFORMATION: Clone ID: 07-LIB34-039-Q1-E1-B3
US-09-960-352-1555
APPLICANT: Mendrick, Donna APPLICANT: Porter, Mark APPLICANT: Johnson, Kory APPLICANT: Castle, Arthur APPLICANT: Elashoff, Michael APPLICANT: Gene Logic, Inc.
                                                                                                                                         Sequence 1543, Application US/09917800A Patent No. US20020119462A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                 Query Match 100.0%;
Best Local Similarity 100.0%;
Matches 15; Conservative 0
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Best Local Similarity
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INFORMATION FOR SEQ ID NO:
                                                                                               TELEFAX: (312) 245-4961 INFORMATION FOR SEQ ID NO: 9:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GENERAL INFORMATION:
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tent No. 5773583
                                                                                                                                                                                                                                                                                                         COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
                                                                                SEQUENCE CHARACTERISTICS:
                                                                                                                         REGISTRATION NUMBER: 36,111
REFERENCE/DOCKET NUMBER: ar
TELECOMMUNICATION INFORMATION:
TELEPHONE: (312) 744-0990
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MOLECULE TYPE:
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LENGTH: 843 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TELEPHONE: (312) 744-0090
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                                                                                                                                                                                                                                     PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/040,548
                                                                                                                                                                                                      FILING DATE: 31-MAR-1993
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CORRESPONDENCE ADDRESS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TUMBER OF SEQUENCES:
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TOPOLOGY: 111
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                                                                                                                                                                                                                                                                     FILING DATE: 06
CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                               COUNTRY:
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                                  STRANDEDNESS:
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NG DATE: 06-JUN-1995
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: Illinois
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                               nucleic acid
EDNESS: single
                                                              843 base pairs
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321 No. 5773583th Clark Street, Suite 800
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                  Linear
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DNA (genomic)
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METHODS AND MATERIALS RELATING TO THE FUNCTIONAL DOMAINS OF DNA BINDING PROTEINS
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Pred. No.
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US-08-040-548-15/c; Sequence 15, App; Patent No. 57632
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                                                                                                 RESULT 5
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Best Local Similarity
Matches 15; Conserv
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Patent No. 5837692
 GENERAL INFORMATION:
APPLICANT: Sukhatme
TITLE OF INVENTION:
TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GENERAL INFORMATION
                                                                                                                                                                                                                                                                                                                                                                            TELEFAX: (619) 535-89
INFORMATION FOR SEQ ID NO:
                                                       tent No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  OPERATING SYSTEM: PC-DOSOFTWARE: Patentin Relicuration DATA:
                                                                                                                                                                                                                                                                                               FEATURE:
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TELECOMMUNICATION INFORMATION:
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                                                                                                                                        273 CTTGGCCGCTGCCAT 259
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                                                                                                                                                                                              Local Similarity hes 15; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER: US/0 FILING DATE: 07-APR-1994 CLASSIFICATION: 435
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                                                                                                                                                                                                                                                                    LOCATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                    NAME: Campbell, Cathryn A. REGISTRATION NUMBER: 31,81
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER:
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                                                                                                                                                                                                                                                                                                                        nucleic acid
DNESS: double
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                                                                    Application US/08040548
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                                                                                                                                                                                                                                                                                                                                                 3068 base pairs
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                           Sukhatme, Vikas P.
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370..1858
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SYSTEM: PC-DOS/MS-DOS
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METHODS AND MATERIALS RELATING TO FUNCTIONAL DOMAINS OF DNA BINDING
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Release #1.0, Version #1.25
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Pred. No.
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Pred. No.
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                                                                                                                                                                                                                                               NUMBER OF SEQ ID NOS: 49117
SOFTWARE: Annomax Sequence
EQ ID NO 20348
LENGTH: 255
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PRIOR APPLICATION NUMBER: PRIOR FILING DATE: 2000-0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   URRENT APPLICATION NUMBER: US/09/864,761
URRENT FILING DATE: 2001-05-23
'NIOR APPLICATION NUMBER: US 60/180,312
'RIOR FILING DATE: 2000-02-04
                                                                                                                                                                                                           TYPE: DNA
ORGANISM: Homo saplens
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TTLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON
ITLE OF INVENTION: GENE EXPRESSION ANALYSIS BY MICH
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APPLICATION NUMBER: US 09/774,203
FILING DATE: 2001-01-29
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                                                                                                                          INFORMATION:
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US20020048763A1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CATION NUMBER: PCT/US01/00662
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CATION NUMBER: PCT/US01/00663
G DATE: 2001-01-30
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DATE: 2000-10-04
DATE: 2000-10-04
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DATE: 2000-09-27
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ON NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                          NUMBER: PCT/US01/00670
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NUMBER: PCT/US01/00669
2001-01-30
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NUMBER: US 09/608,408
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IUMBER: US 60/234,687
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                                                                                                                                                                             AC007263.3
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 HH
           IN BT474, SIGNAL = 1.3
IN BONARROW, SIGNAL = 0.79
IN HELAO, SIGNAL = 0.79
IN ABLAD, SIGNAL = 0.79
IN ABLAD, SIGNAL = 0.70
IN BRAIN, SIGNAL = 0.76
IN PLACENTA, SIGNAL = 0.77
IN HEART, SIGNAL = 1.1
IN LUNC, SIGNAL = 1.11
IN LUNC, SIGNAL = 0.88
HEART, SIGNAL = 1.1
LUNG, SIGNAL = 0.88
FETAL LIVER, SIGNAL =
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RESULT 6
US-09-864-761-31839/c
; Sequence 31839, App.
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; OTHER INFORMATION:
US-09-864-761-20348
                                                                                   SOFTWARE: Annom SEQ ID NO 31839 LENGTH: 255
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local Similarity
Matches 14; Conser
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRIOR FILING DATE: 2000-02-04
PRIOR APPLICATION NUMBER: US 60/207,456
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: US 09/632,366
PRIOR FILING DATE: 2000-08-03
PRIOR APPLICATION NUMBER: GB 24263.6
PRIOR FILING DATE: 2000-10-04
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CURRENT APPLICATION NUMBER: US/09/864,761
CURRENT FILING DATE: 2001-05-23
PRIOR APPLICATION NUMBER: US 60/180,312
                                                                                                                                                               NUMBER OF SEQ ID NOS: 49117
                                                                                                                                                                             PRIOR APPLICATION NUMBER: US 09/774,203 PRIOR FILING DATE: 2001-01-29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: Penn, Sharron G.
OTHER INFORMATION: MAP TO ACOO7263.4 OTHER INFORMATION: EXPRESSED IN BONE MARROW, OTHER INFORMATION: EXPRESSED IN FETAL LIVER,
                                                     ORGANISM: Homo sapiens FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ITLE OF INVENTION: GENE EXPRESSION ANALYSIS BY MICROARRAY ILE REFERENCE: AGOMICA-X-1
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                                                                                                                                                                                                         APPLICATION NUMBER: US 60/234,687
FILING DATE: 2000-09-21
APPLICATION NUMBER: US 09/608,408
FILING DATE: 2000-06-30
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APPLICATION NUMBER: US 60/236,359
FILING DATE: 2000-09-27
APPLICATION NUMBER: PCT/US01/00666
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Search completed: December 16, 2002, 14:18:28 Job time : 89 secs	Qy 1 CTTGGCCGCTGCCAT 15 	Best Local Similarity 93.3%; Pred. No. 2.6e+02; Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;



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